

### AC POWER SOURCE

MODEL 1001SLE/1751SLE

**SERVICE MANUAL** 

### ELGAR ELECTRONICS CORPORATION

9250 Brown Deer Road San Diego, CA 92121-2294 1-800-733-5427

Tel: (858) 450-0085 Fax: (858) 458-0267

Email: sales@elgar.com

www.elgar.com

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- the Buyer receives a Return Material Authorization (RMA) number from Elgar's Repair Department prior to the return of the product to Elgar for repair, phone 800-73-ELGAR (800-733-5427), ext. 2295;
- the Buyer returns the defective product in the original, or equivalent, shipping container;
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   Unauthorized returns will not be accepted and will be returned at the shipper's expense.
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- Equipment purchased in the United States carries only a United States warranty for which repair must be accomplished at the Elgar factory.



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### **SAFETY NOTICE**

Before applying power to the system, verify that the unit is configured properly for the user's particular application.



### **WARNING!**

HAZARDOUS VOLTAGES IN EXCESS OF 260 VRMS, 370V PEAK MAY BE PRESENT WHEN COVERS ARE REMOVED. QUALIFIED PERSONNEL MUST USE EXTREME CAUTION WHEN SERVICING THIS EQUIPMENT. CIRCUIT BOARDS, TEST POINTS, AND OUTPUT VOLTAGES MAY BE FLOATING ABOVE (BELOW) CHASSIS GROUND. INTERNALLY, IN ADDITION TO THE VOLTAGES MENTIONED ABOVE, DC POWER SUPPLY VOLTAGES OF ±60VDC MAY BE PRESENT. SUCH DC VOLTAGES ARE CAPABLE OF SHORT CIRCUIT CURRENTS OF UP TO SEVERAL HUNDRED AMPERES.

Installation and service must be performed by <u>qualified personnel</u> who are aware of dealing with attendant hazards.



Ensure that the AC power line ground is connected properly to the AC Power Source. Similarly, other power ground lines including those to application and maintenance equipment <u>must</u> be grounded properly for both personnel and equipment safety.

Always ensure that facility AC input power is de-energized prior to connecting or disconnecting the power cable(s) and/or installing or removing the unit from the AC Power Source. Similarly, the AC Power Source circuit breaker must be switched OFF (0) prior to connecting or disconnecting input and/or output power cable(s) and/or installing or removing the unit from the AC Power Source.

During normal operation, the operator does not have access to hazardous voltages within the chassis. However, depending on the user's application configuration, HIGH VOLTAGES HAZARDOUS TO HUMAN SAFETY may be generated normally on the output terminals. Ensure that the output power lines are labeled properly as to the safety hazards and that any inadvertent contact with hazardous voltages is eliminated. To guard against risk of electrical shock during open cover checks, <u>do not touch</u> any portion of the electrical circuits. Even when the power is off, capacitors can retain an electrical charge. Use safety glasses during open cover checks to avoid personal injury by any sudden failure of a component.

Some circuits are live even with the front panel circuit breaker of the AC Power Source turned OFF (0). Servicing, and even fuse verification as well as connecting wiring to the chassis must be accomplished with the power removed via external means. Some components that can hold a charge for a time after power has been removed, such as storage capacitors, are used in this equipment. These parts have discharging devices connected to provide a means for the discharge of voltages when the power is removed. Wait at least two minutes after removal of power to allow the discharging of these parts.

This equipment is designed to be operated in a manner specified by the manufacturer for both personnel and equipment safety. Operating this equipment in a manner NOT specified by the manufacturer, the protection provided by the equipment may be impaired.

### **SAFETY SYMBOLS**



CAUTION
Risk of Electrical Shock



CAUTION
Refer to Accompanying Documents



Off (Supply)



Standby (Supply)

On (Supply)



**Protective Conductor Terminal** 

Direct Current (DC)



Alternating Current (AC)



Three-Phase Alternating Current

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### 1.1 INTRODUCTION

This section describes the Model 1001SLE/1751SLE Series AC Power Sources and associated circuit boards, assemblies and interconnecting signals. This section provides a sound basis for understanding the roles performed by the instrument electronics and should be a precursor to any troubleshooting or maintenance. The user should frequently refer to the schematics located in Section IV of this manual.

Topics of this section are well advanced of normal Operator/ Programmer activities. An understanding of both analog and digital design, associated devices, and terminology is necessary to fully understand the material presented in this section. For details of the inner workings of components, refer to the Individual Device Manufacturer's Data books.

Prior to the detailed level of discussion of the assemblies and boards within the power source, a top level system overview is provided. An under-standing of both top level and circuit activities is most valuable should the user find it necessary to investigate a suspected fault or malfunction within the power source.

If the power source has a PIP (Plug-In Programmable oscillator) installed, refer to the Service Manual covering the PIP being used and become familiar with the theory of operation. This understanding of the PIP theory of operation will enhance the user's understanding of the power source.

### 1.2 SYSTEM OVERVIEW

Figure 1-1 identifies the power amplifier functional relationships. The Preamplifier PC Board plugs into the motherboard. The preamplifier/power stage gain is stabilized and is determined by an AC feedback loop. Another feedback loop from transformer T3 controls regulation. To achieve an overall gain sufficient to produce the required power amplifier output voltages, a step-up transformer is employed. This step-up transformer, T2, is interposed between the power amplifier and the output load. Meter M1, a 0 to 300 VAC indicator, monitors the output voltage and is mounted on the front panel of the power source. Resistor R1, the front panel AMPLITUDE control, governs the input signal with a magnitude of approximately 2 VRMS. This signal is derived from either a plug-in oscillator module or from an external signal source.

### 1.3 INTERCONNECTION AND POWER SUPPLIES

(Refer to Schematic No. 6071076 for the 1001SLE, or to Schematic No. 6121045 for the 1751SLE.)

Input power enter at terminal block, TB1, on the rear panel of the power source. The input is passed through a line filter, and is applied to the input power circuit breaker, CB1, which breaks both sides of the input power line. The circuit breaker applies the input power to the primary of the input power transformer, T1, +8V power supply transformer, T5, and the cooling fan(s).

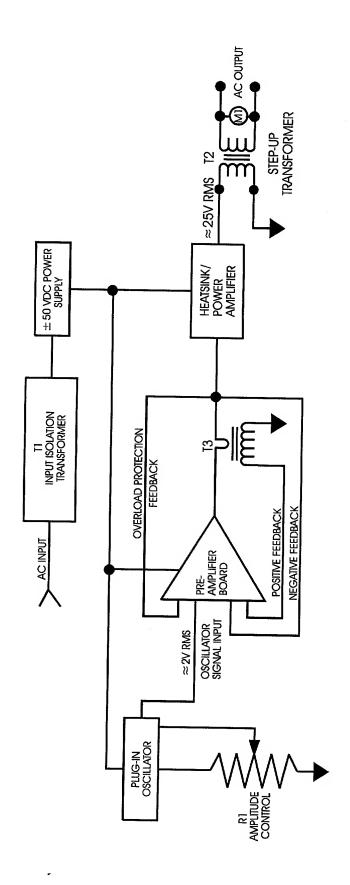


Figure 1-1. Model 1001SLE/1751SLE Simplified Block Diagram

The secondary of the input power transformer, T1, is applied to a full wave bridge rectifier, U1. After rectification, the voltage is filtered by capacitors C1 and C2 to make the +/-50VDC supplies required for the power amplifier. There are supply bleeder resistors attached to the C1 and C2 filter capacitors to discharge the filter capacitors after power is turned off. The secondary of the +8V power supply transformer, T5, is applied to a full wave bridge rectifier, U1. After rectification, the voltage is applied to the power indicator, DS1, and is also connected to the Motherboard to be used in the Plug-In oscillator module to create the +5VDC logic supply. This secondary is fused with a 2A Slo-Blo type fuse, F1, located next to T5 in the chassis.

The motherboard assembly interfaces with the oscillator, whether a plug-in or an external signal source. The preamplifier plugs into the motherboard.

The motherboard connectors are as follows:

- J1 allows the connection of AMPLITUDE control pot, R1 located on the front panel.
- J2 interfaces with the Upper and Lower Heatsink assemblies.
- J3 connects the Motherboard to the J1 connector located on the rear panel via a cable assembly (Part Number 5121051).
- J4 provides connections for the current transformer, T3, which controls regulation via feedback.
- J5 provides optional relay control connections, if configured.
- J6 allows for optional PIP voltage and current sense, if configured.
- J7 provides optional connections for the "T" Test option, which allows current monitoring and current limit programming, if configured.
- J8 provides optional connections for the "D" Disconnect option, and also allows connections for multi-amplifier system. Only found on the 5071077 Motherboard Assemblies, if configured.
- Connections E1, E2, and E3 provide optional Sync connections for PIP options via rear panel mounted BNC connectors, if equipped.

The motherboard includes several relays as follows:

- K1 is the optional 65/130V Range Drive relay, if configured.
- K2 is the oscillator signal disable relay.
- K3 is the optional 130/260V Range Drive relay, if configured.
- K4 is the optional "D" Disconnect Drive relay (found only on the 5071077 Motherboard Assemblies), if configured.
- K5 is the optional "D" Disconnect sense voltage relay (found only on the 5071077 Motherboard Assemblies), if configured.

Refer to Schematic Drawing No. 6071075 and 6071077 for more detail on the motherboard connections and relays.

The amplifier's output goes to transformer T2 where the voltage is stepped up to the required level for output on terminal block TB2. The T2 secondary winding are 4 individual 0-65VAC output windings. These winding are brought to an internal terminal block, TB3. The first two windings are jumpered in series for a 0-130VAC output. The remaining two windings are also series connected for 0-130VAC output. The two 0-130VAC outputs are brought to the rear panel output terminal block, TB2. TB2, via jumpers, determines the output voltage range of either 0-130VAC (parallel connected) or 0-260VAC (series connected) output voltage range. The output voltage is also available at the front panel binding posts E1 (Red), E2 (White), and E3 (Black). The 0 to 300 VAC Meter, M1, allows the output voltage to be monitored on the front panel.

### 1.4 PREAMPLIFIER

(Refer to Schematic No. 6070004.)

The preamplifier stabilizes the gain of the power source via an AC feedback loop. The preamplifier works with T3 to control regulation.

The preamplifier circuit embodies a first stage differential amplifier U1A/B, which receives its signal input from AMPLITUDE control, R1. The differential amplifier receives feedback from the output amplifier, thereby maintaining approximately zero DC offset to the output transformer. The emitter currents are supplied by R5 from the +12V supply, regulated by CR1. The output of U1B provides the base drive for Q1 which operates as a class A amplifier. Q1 supplies the base drive for common emitter driver Q5 and emitter follower Q4. Diodes CR2, CR3, and CR4 provide a small amount of forward bias to the output amplifier to minimize crossover distortion. Q4 and Q5 are drivers for the emitter followers on the power heatsink assemblies. Transistors Q2 and Q3 are part of a circuit designed to protect the power transistors on the power heatsink assemblies. Power transistor protection on the preamplifier is driven by feedback from the heatsink assemblies. Current flow in the upper half of the power heatsink is sampled by a resistor, R6, on the heatsink and applied through R29 of the preamplifier to the base of Q2. Q2 is the upper current limit transistor. When the voltage is sufficient to turn on Q2, Q2 conducts and diverts drive current from the base of Q4, thus preventing any further increase in output current. Simultaneously, the current in the lower half of the power heatsink is sampled by R7 on the motherboard. This voltage is applied through R31 of the preamplifier to the base of Q3. Q3 is the lower current limit transistor. When Q3 conducts it diverts drive current from the base of Q5, thus preventing any further increase in output current. The resistor diode network, in the base circuits of Q2 and Q3, senses the amplifier output voltage and modifies the bias voltages of Q2 and Q3 to further reduce the output current under short circuit or severe overload conditions. This prevents excess dissipation in the power transistors on the heatsink assembly. Negative AC feedback, from the power transistor's output, is fed back to the base of U1A through resistor R11. Capacitor C5, across R11, helps stabilize the amplifier against high frequency instabilities.

In order to maintain proper load regulation, the primary current of output transformer T2 is sensed by current sense transformer T3. As the load is applied to the output of the unit, a positive feedback signal is developed at the secondary of T3 and is applied across shunt resistor R27 and regulation adjustment potentiometer R26 of the preamplifier board. This signal is then applied to the input of the differential amplifier through R3. Capacitor C2 and resistor R2 make up a boost network which increases the positive feedback at higher output frequencies to maintain regulation. The preamplifier board operates from the positive and negative 50 VDC produced by chassis full wave bridge rectifier U1.

### 1.5 HEATSINK ASSEMBLIES

(Refer to Schematic No. 6920026 for the 1001SLE, or Schematic No. 6121024 for the Model 1751SLE.)

The heatsink assemblies are mounted in the wind tunnel and house the power transistors. The power transistors produce the necessary amplifier output current to feed the primary of chassis output transformer T2. T2 will subsequently step up the voltage to the required level for output (refer to Schematic Nos. 6071076 or 6121045, as required, for T2 circuitry). The resistors, in the emitter circuitry of each power transistor, ensure equal current sharing. The heatsink assembly is operated from positive and negative 50 VDC which is produced by chassis full wave bridge rectifier U1 and filter capacitors C1 and C2 (refer to Schematic Nos. 6071076 or 6121045, as required, for U1 circuitry). Thermal switch TK1, shown on the heatsink schematic, removes the drive signal from the amplifier, via the preamplifier, in the event of overheating. Overheating may occur from excessive load application or restricted airflow through the wind tunnel.

The preamplifier contains circuitry which protects the power transistors. Current flow is sampled in the upper heatsink by R6 and is sampled in the lower heatsink by chassis resistor R7. The voltage developed by these two sampling resistors is fed to the preamplifier current limit transistors Q2 and Q3.

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### 2.1 GENERAL

This section contains procedures for corrective maintenance of the Model 1001SLE/1751SLE AC Power Source. Information provided includes checkout, troubleshooting, disassembly for repair, and adjustments. A list of test equipment required for maintenance and adjustments is also included in this section. The Model 1001SLE/1751SLE is delivered with all adjustments and calibrations completed. Further adjustment should not be required unless a malfunction occurs and/or certain critical parts are replaced.

If the procedures of this section and the circuit descriptions contained in Section I do not provide sufficient information to locate and correct a malfunction, the assistance of the Elgar Customer Service Department should be requested. Equipment should not be returned to the Elgar factory without the express authorization of Elgar Corporation or its authorized representative. Elgar cannot assume the responsibility for equipment returned without authorization.



<u>WARNING!</u> Hazardous voltages are present when operating this equipment. Please read the Safety Notice at the beginning of this manual prior to installation, operation, or maintenance.

### 2.2 REQUIRED TEST EQUIPMENT

The test equipment required to conduct performance verification procedures and for troubleshooting is listed in Table 2-1. Substitute equipment may be employed provided the equipment meets the accuracy specifications of the equipment.

Name Manufacturer and Characteristics Model Number Multimeter Simpson Model 260 20,000 ohms/volt AC, DC, and ohms Differential Voltmeter Fluke Model 931AB RMS Volts range to 1000 VAC AC Ammeter Fluke With amp clamp Power Variac Capable of at least 30 amps Oscilloscope **Tektronix** Dual trace oscilloscope, DC to 60 MHz Model 455/A2/B2 Probe Tektronix Model 6105 X10 probe Distortion Analyzer Hewlett-Packard Model 333A Resistive Load States Company (P/N 33525)

Table 2-1. Required Test Equipment



<u>WARNING!</u> Remove power when performing maintenance on the unit. Failure to comply can result in serious electrical shock to individuals coming in contact with live voltages at exposed terminals when the unit is energized.

### 2.3 TROUBLESHOOTING ACCESS

Refer to Figures 2-1 and 2-2 (1001SLE) or Figures 2-3 and 2-4 (1751SLE) for major component locations. The assembly drawings in Section IV should be used to locate parts on board assemblies.

### 2.4 PERIODIC MAINTENANCE

The only periodic maintenance required by the power source is removing the dust and dirt which has accumulated during operation. Examine the power heatsinks as excessive dirt buildup in this area could cause overheating of the power transistors. A medium pressure air jet can aid in cleaning of the heatsinks. Also ensure that the preamplifier board and oscillator plug-in are clean.

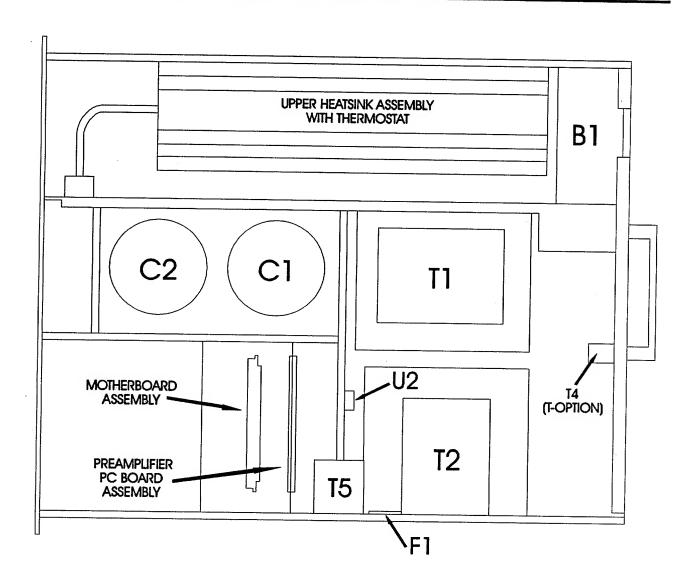


Figure 2-1. Model 1001SLE (Top View, Cover Removed)

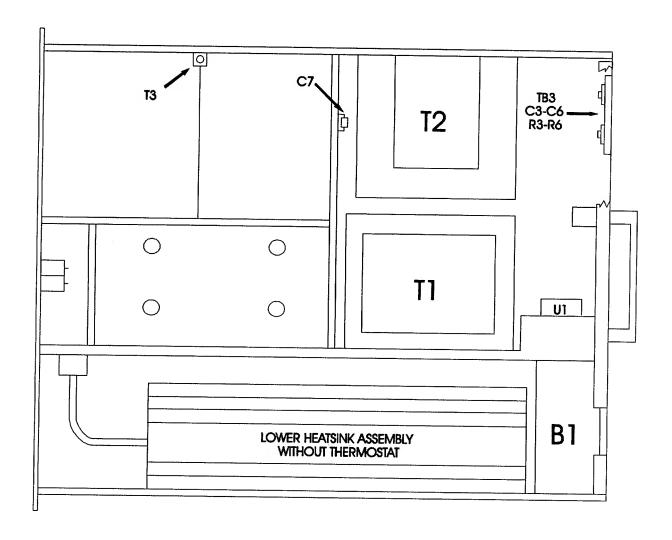


Figure 2-2. Model 1001SLE (Bottom View, Cover Removed)

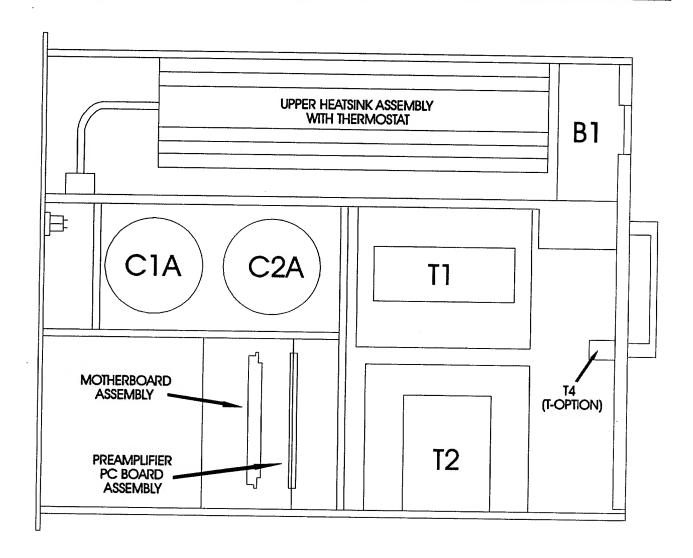


Figure 2-3. Model 1751SLE (Top View, Cover Removed)

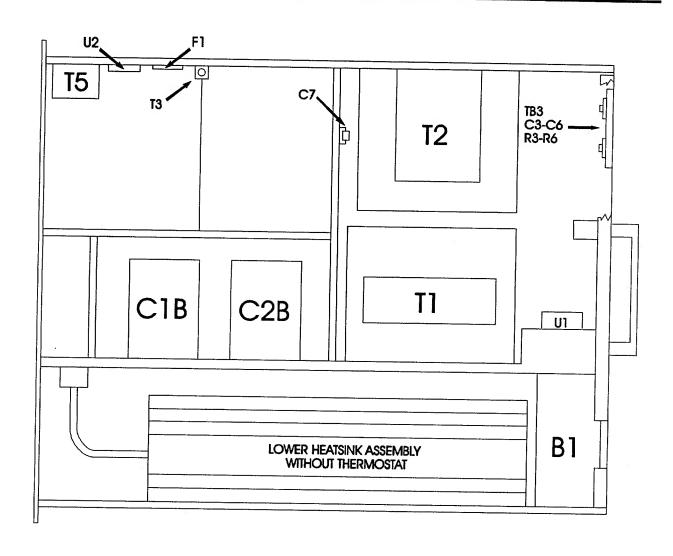


Figure 2-4. Model 1751SLE (Bottom View, Cover Removed)

### 2.5 ADJUSTMENTS

Test points and adjustment controls are conveniently provided at the top of the amplifier circuit board, accessible by removing the top cover of the power source (refer to Drawing No. 5070004). The test points are as follows:

TP1 Circuit Common - Brown

TP2 Amplifier Output - Red

TP3 Oscillator Signal - Orange

TP4 U1A Collector - Yellow

### 2.5.1 Output Regulation Adjustment

The regulation adjustment on the preamplifier, resistor R26, is set at the factory to provide ±1% load regulation over the full frequency range of the power source. The regulation may require readjustment if the load is highly reactive or if zero regulation is desired for a specific load and frequency.

To make this adjustment, perform the following:

- 1. Disconnect the load.
- 2. Read the output voltage.
- 3. Re-connect the load.
- 4. Adjust R26 until the same reading as in step 2. above is obtained.

**NOTE:** If the load is sufficiently heavy to cause current limit transistors Q2 and Q3 to conduct, the output voltage will be reduced, giving an indication of poor load regulation. Load voltage fall-off due to current limiting action should not be compensated by the regulation adjustment.

### 2.5.2 Current Limit Adjustment

The current limits have been preset at the factory such that the unit will deliver full rated power over the output voltage range. Readjustment of the limits should not be performed unless a malfunction has occurred in the unit and parts have been replaced to affect the current limit. The current limit adjustment may be checked by observing the waveform at TP2 with an oscilloscope.

### Perform the following:

- 1. Set the oscilloscope sensitivity to 10 volts/cm.
- 2. Turn the unit on and adjust the output for 130VAC on the 0-130VAC output voltage range as indicated on the meter.
- 3. Connect a load as follows:
  - a. A 11.27 Ohm load (11.53 Amps) to the output terminals of the 1001SLE (load must be capable of dissipating 1500W); or,
  - b. A 6.44 Ohm load (20.19 Amps) to the output terminals of the 1751SLE (load must be capable of dissipating 2625W).
- 4. Adjust the current limit potentiometers clockwise until peak clipping is observed at TP2.
- 5. Adjust the limit potentiometers counter-clockwise until clipping just disappears.

### 2.6 TROUBLESHOOTING/FAULT SYMPTOMS

### 2.6.1 Circuit Breaker Trips

If the circuit breaker trips at no load, a fault in either the power transistors or the power rectifiers is indicated. Perform the following:

- 1. Unplug the heatsink assemblies and try the circuit breaker.
- 2. If it does not trip, look for a shorted power transistor (power transistors can be checked with an ohmmeter).
- 3. If the circuit breaker still trips, look for a shorted rectifier bridge.
- 4. If the rectifier bridge and filter are good, a fault in the power transformer or wiring harness probably exists.

### 2.6.2 Output Distortion

Overloading may cause output distortion. Check the load current waveform with an oscilloscope. An oscilloscope is recommended because some high crest factor loads may draw considerably more peak current than is indicated by a load ammeter.

### 2.6.3 Overheating

If overheating causes thermostat TK1 to close, the output voltage will fall to zero. Overheating may be caused by restricted airflow or environmental temperature greater than 50°C (122°F).

### 2.6.4 +8V Power Supply Failure

The T5, U2, and F1 circuit create the +8V supply that is used in the Plug-In oscillator module to create the +5VDC logic supply. This +8V supply also provides the power to the "POWER ON" indicator, DS1, located on the front panel of the AC Power Source. If the +8V power supply is not operating properly, the DS1 indicator will not come on although the cooling fan(s) are operating when the circuit breaker is turned on. An oscillator module will not output a drive signal under this condition either. Check the chassis mounted secondary fuse, F1, which should open in the event of excessive current draw in this circuit. Only replace fuse F1 with the same 2A Slo-Blo type fuse. Failure to do so, may result in additional damage to the unit.

### 2.7 REAR PANEL REMOVAL

Should troubleshooting and repair require better access to components located in the rear of the chassis, the panel mounting screws can be removed. Great care should be used when moving the rear panel; the wiring cannot be unattached. Therefore, the rear panel can only be moved 2" to 3" from its mounted position. Trying to move or force the rear panel further may result in damage to wiring and/or components in the rear of the chassis.

### 2.8 REPAIR AND REPLACEMENT

Generally, if parts are suspected of damage, the parts shall be checked with a multimeter for proper electrical value prior to replacement.

### 2.9 CIRCUIT BOARD ASSEMBLIES

Circuit board assemblies can be either repaired or replaced if either a part or the circuit card is damaged. De-energize the unit before removing any circuit board assembly. To remove a circuit board, remove the retainer hardware and pull straight up on the circuit board, taking care not to damage circuit components.

When re-installing a circuit board, carefully fit the edge of the circuit board in the connector and press firmly to seat. Re-attach the retainer hardware to ensure that the circuit board(s) are firmly mounted.

### 2.10 FACTORY REPAIR

Do not replace factory selected parts. If necessary to return an instrument to the factory for repair, contact the Elgar Service Department for shipment authorization. DO NOT RETURN THE UNIT FOR REPAIR WITHOUT AUTHORIZATION.

### 3.1 GENERAL

This section contains a listing of all part numbers used in the manufacture of the Model 1001SLE/1751SLE AC Power Source. Parts are located on the diagrams provided in Section IV and correlated on the parts list by using their reference designators and/or Elgar part number.

**NOTE:** Trimming capacitors are factory selected and their replacement is considered beyond the scope of customer maintenance.

### 3.2 SPARE PARTS ORDERING

When ordering spare parts, specify the part name, part number, manufacturer, component value, and rating. If complete assemblies are desired, contact:

ELGAR ELECTRONICS CORPORATION Sales & Technical Support 9250 Brown Deer Road San Diego, CA 92121-2294 1-800-733-5427 Tel: (858) 450-0085

Fax: (858) 458-0267 Email: sales@elgar.com

www.elgar.com

Specify the assembly number, instrument series number, and instrument name when ordering.

### 3.3 PARTS LIST

Parts list included in this section is listed in Table 3-1.

Table 3-1. Model 1001SLE/1751SLE Parts List

Part Number	Description
5070003-01	Heatsink Resistor Board Assembly
5070004-01	Preamplifier Board Assembly
5071007-04	Divider Assembly 1001SLE
5071014-01	Capacitor Assembly
5071014-BS	Capacitor Assembly, Basic
5071070-01	Filter Box Assembly 1001SLE
5071075-03	Motherboard Assembly SLE
5071076-01	Final Assembly 1001SLE
5071082-01	Rear Panel Assembly 1001SLE
5071083-01	Front Panel Assembly 1001SLE
5071084-01	Right Panel Assembly 1001SLE
5071085-01	Brace Plate Assembly 1001SLE
5071085-01	Brace Plate Assembly 1751SLE
5121010-03	Divider Assembly 1751SLE
5121024-01	Heatsink Assembly w/TK 1751SLE
5121024-02	Heatsink Assembly w/o TK 1751SLE
5121045-01	Final Assembly 1751SLE
5121047-02	Right Panel Assembly 1751SLE
5121048-01	Rear Panel Assembly 1751SLE
5121049-02	Front Panel Assembly 1751SLE
5920026-01	Heatsink Assembly w/TK 1001SLE
5920026-02	Heatsink Assembly w/o TK 1001SLE

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ASSEMBLY, CALMEX - PCB	HEATSINK RES	DESCRIPTION
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1 T O H	OPCODE: 4 REV: A	DESCRIPTION
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	5070003-01 MODEL: ECO NO: DATE OF LAST ECO: 00/00/00	PART NUMBER

COMMODITY CLASS ASSEMBLY, ELGAR - PCB	PREAMP BD ASSY, SL	
COMMODITY CLASS ASSEMBLY, ELGAR	OPCODE: 3 REV: E	
CLASS CODE GROUP: 1 CLASS CODE: 180	OPCODE:	DATE OF LAST ECO: 00/00/00
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CLASS CODE G	5070004-01 MODEL: ECO NO:	DATE OF I

CLASS CODE:	180 ASSEMBLY, ELGAR - PCB							0P: 0RD	tr tr	OT.TCV CODE			
5070004-01 MODEL: ECO NO: DATE OF LAST ECO:	OPCODE: 3 REV: E PREAMP BD 8 00/00/00	ASSY,	SI					F	ART ART ART ART	PTIONAL EQUIRED OES NOT PRINT RINTS ON SALES RINTS ON SALES	ON SALES ORDER W/ ORDER WI	ORDER O PRICE TH PRICE	
PART NUMBER	DESCRIPTION		TEM NO.	OTY	IELD ACTR	Σ.	C C F F F F	PREP CODE	DAYS OFF Set		EFFECTIV DATE	OBSOLETE DATE	
070004	PWA, PREAMP-SL	. 回		, 0	100		1 2	1 0					
6070004-01 9070004-01	CHM, PREAMP BD SL		6	•	0000	E A	K	000.	> 0	<b>&gt;</b> c	96/90/60	5 5	
0-470-0	PCB, SL/SX SERIE		12	00.	000.	Æ	ΛΛ	.00	0	. 0	0/00/0	6/66/6 6/66/6	
20-301-0	CAP, 300PF, 500V, 58, MICA		t	0 (	000.	<b>«</b>	N X	0	0	S	0/00/0	6/66/6	
82-1	100V, 18, F		17			ďa	Z Z	000	0 0	95	0/00/0	6/66/6	
22-104-0	CAP, .10UF, 200V, 10%, FILM		18	?	0000.	c at	K F		<b>-</b>	טנ	0/00/0	6/66/6	
72-723-0	CAP, 10UF, 50V, 10%, FILM		19	00.	.000	<	K N		0		0 / 0 0 / 0	6/66/6	
23-227-6	CAP 220HF 10V 208 HANNE		20	00.	000.	ď	Y N	00.	0		0/00/0	6/66/6	
23-475-6	CAP, 4.7UF, 35V, 20%, TANE		77	000	000.	<b>4</b> .	ΧN	.00	0	60	0/00/0	6/66/6	
24-506-7	CAP, 50UF, 50V, AL, AXL		7 7 7			d! e	Z :	00.	0	U	0/00/0	6/66/6	
43-524-2	DIODE, ZENER, 12V, . 5W, 5%		* 4	9 0		d: e	N A	000	0 (	C 2	0/00/0	6/66/6	
45-400-4	V, 1A, 1N		27		000		4 k		<b>o</b> c	CRI	0/00/0	6/66/6	
22-150-0	OH, SWD		33	.00	000.	٠	N N	20	<b>,</b>	ָרָ בְּי	0/00/0	6/66/6	
35-764-3	, . 6A, PN2907		36	.00	.000		Ν×	00.	• •	10		6/66/6	
39-358-3	PN3643, TO-92		37	.00	000.			00.	0	×O		7/7/7/7	
42 - 621 - 1	V, ZA, ZN3583		8 6	00.	000.		Ν×	.00	0	ď	0/00/0	6/66/6	
19-381-0	DUAL PNP AMP MATCHED		η <b>σ</b>	00.	000.	_		00.	0	0.5	0/00/0	6/66/6	
02-101-0	ES, 100, 1/2W, 28, MF		7 T	9 6	000		K K	00.	0	U1	0/00/0	6/66/6	
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-103-	, 10K, 1/2W, 28, MF	က	4.5	.00	0000		NA	0	c	35			
02-122-0	S, 1.2K, 1/2W, 28	m	46	00.	000.	A	ΥN		0	87	70070	6/66/6	
02-470-05	7	m r	47	00.	000.	Ø	ΧN	00.	0	R27	0/00/0	6/66/6	
02-182-05	1/2W.28	າ ຕ	4, 4 D Q	000	000.	⋖,		00.	0	ж8	0/00/0	6/66/6	
02-330-05	2W, 2%, MF	י ה	, r.			< <	N X	00.	0 (	R24	0/00/0	6/66/6	
02-4R7-05	/2W,5%,	m	5 2	000		C A	3 Z		<b>5</b> 6	R10,14,15	0/00/0	6/66/6	
02-472-05	1/2W,2	٣	53	00.	0000	: A	N N	90	<b>-</b>	K28,30	0/00/0	6/66/6	
02-622-05	1/2W,2%,M	3	5.4	.00	000.	Æ	X	00	· c	R5 / 0 / 10	0 / 0 0 / 0	6/66/6	
03-22-03	5,8.2K,1/2W,2%,M	ლ (	26	.00	000.	Æ	ΧN	.00		6 24		6/66/6	
04-222-05	MED, 2.25, 1W, 38	m (	5.0	00.	.000	æ	ΧN	.00	0	R4	0/00/0	0/00/0	
13-332-1F	1 / 4 W 19 700 BNC0 W	יי ני	0 0	00.	000.	æ	ΧN	.00	0	R12,13	0/00/0	6/66/6	
13-332-2F	1/4W.18.7	o ~	~ 0	9	000.	a! .	K N	00.	0	R1	0/00/0	6/66/6	
13-511-1F	1/4W, 18, 70C, RN60, M	n ~	0 0	9 6	000	d: .	N.	00.	0	R11	0/00/0	6/66/6	
19-100-3	F, 10, 1W, 20T, PC	о С					Z :	000	0	R3	0/00/0	6/66/6	
19-102-	.0K,1W	) E	7 7	0 0		-	N N	000	0 0	R32,33	0/00/0	6/66/6	
92-430	,430-108, BRN	. m	7.5				Z 2	000	۰ ۵	R26	0/00/0	6/66/6	
92-430-	,430-102, RE	э Э С	76	1.000	1.000 E	0 E	Z Z	1.000	0 0	0 TP1	00	66/66/66	
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BILL OF MATERIAL

AS OF 11/03/99

COMMODITY CLASS

66/66/66 66/66/66 EFFECTIV OBSOLETE 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE DATE 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 DATE REFERENCE DESIGNATOR ------OP: ORDER POLICY CODE TP3 REQ:N=PART OPTIONAL Y=PART REQUIRED SEQ 0000000 DAYS OFF SET 1.000 1.000 3.000 6.000 2.000 2.000 2.000 2.000 6.000 12.000 PREP ပ္ပ E B B ΕĄ Ε̈́ E ΕÀ ΕY ASSEMBLY FACTR 1.000 1.000 1.000 1.000 1.000 QTY PER YIELD 1.000 1.000 1.000 1.000 1.000 2.000 2.000 2.000 2.000 6.000 1.000 1.000 3.000 0000.9 . 0 N PREAMP BD ASSY, SL RV m m U Д SCREW, 4-40 X .438, PPH
WASHER, 4, INT LOCK
NUT, 4-40, HEX, STD, CS
BRKT, L, .375L X .375L X .281W
SCREW, 6-32 X .250, PPH ASSEMBLY, ELGAR - PCB HTSK, ALUM, BASE, T066 WASHER, 6, INT LOCK WASHER, 4, FLAT, SM OD OPCODE: 3 REV: E TP,430-106,ORG TP, 430-107, YEL DESCRIPTION DATE OF LAST ECO: 00/00/00 CLASS CODE GROUP: 1 CLASS CODE: 180 PART NUMBER 111DA04-01 111DE04-01 892-430-03 894-616-6C 109-633-BK 110DA04-04 110CA04-07 111CE04-01 112CB04-01 892-430-04 5070004-01 ECO NO: MODEL:

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	ON SALES O ORDER W/O ORDER WIT	EFFECTIV DATE		00/00/00	0/00/	0/00/	00/00/00	00/00/00	00/00/00	00/00/00	00/00/00	0	00/00/00	00/00/00	00/00/00	00/00/00	0/00/0	00/00/00	00/00/00
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	ASSY,	! !			8	a 0													
COMMODITY CLASS PHANTOM	OPCODE: 3 REV: A PANEL ASSY,DI	HION	DIVIDER ASSY 1001SL	A	AFMR ASSI, INFOT - AC		CONN. 12P. 15A. PNI. MN# CK#	RES., 015, 50W, 58. WW	SCREW, 4-40 X 375, PPH	WASHER, 4, INT LOCK	SCREW, 6-32 X . 375, PPH	WASHER, 6, INT LOCK	6.FLAT	NUT, 6-32 HEX CS	SCREW 1/4-20 X 500 ppu	WASHER 1/4 SPITE LOOK	WASHER, 1/4 FLAT	HTSK ALUM 2 25X1 75TN	5 1 2 2 4 5 2 4 5 2 5 2 5 2 5 2 5 2 5 2 5 2
	OPCODE:	DESCRIPTION	DIVIDER	DIVIDER	CROMMET GROMMET	RECT. BR	CONN, 12	RES, 01	SCREW, 4	WASHER,	SCREW, 6	WASHER,	WASHER, 6, FLAT	NUT, 6-3	SCREW. 1	WASHER	WASHER,	HTSK. AL	
CLASS CODE GROUP: 1 CLASS CODE: 550	5071007-04 MODEL: 1001SLE ECO NO: R1541 DATE OF LAST ECO: 07/09/97	PART NUMBER	5071007	507107-01	109-217-0x	847-100-AB	856-412-S1	810-R15-05	110CA04-06	111CE04-01	110DA04-06	111DE04-01	111DA04-01	112DB04-01	110HA04-08	111HC04-01	111HA04-01	894-FWB-TP	

PAGE NO:

AS OF 11/03/99

EFFECTIV OBSOLETE 66/66/66 00/00/00 0 PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE DATE DATE REFERENCE SEQ DESIGNATOR OP: ORDER POLICY CODE REQ: N=PART OPTIONAL Y=PART REQUIRED DAYS OFF SET ! 00 1.000 PREP CODE R QTY PER YIELD ASSEMBLY FACTR UM SC QF 1.000 1.000 EA X 2.000 1.000 EA B K NO. 1 2 ITEM O P RV . . . CAPACITOR ASSY æ COMMODITY CLASS PHANTOM CAPACITOR ASY BASIC CAP, 40KUF, 75V, AL, RAD OPCODE: 3 REV: B DESCRIPTION ECO NO: DATE OF LAST ECO: 00/00/00 CLASS CODE GROUP: 1 CLASS CODE: 550 PART NUMBER 5071014-BS 826-403-75 5071014-01 MODEL:

 WED,	NON	3,	1999,	WED, NOV 3, 1999, 1:53 PM	PORATION BILL OF MA	DISTRI] ATERIAL
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COMMODITY CLASS

EFFECTIV OBSOLETE 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 N=PART DOES NOT PRINT ON SALES ORDER Y=PART PRINTS ON SALES ORDER W/O PRICE P=PART PRINTS ON SALES ORDER WITH PRICE 66/66/66 DATE 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 DATE REFERENCE DESIGNATOR OP: ORDER POLICY CODE REQ:N-PART OPTIONAL Y-PART REQUIRED SEO DAYS OFF SET PF: N=PART  $\begin{array}{c} 1.000 \\ 2.000 \\ 2.000 \end{array}$ 5.000 2.000 5.000 2.000 4.000 2.000 5.000 4.000 PREP CODE 1 O E P Ε'n ΕA ΕÀ ΕA ΕA ΕA ΕA ASSEMBLY FACTR 1.000 1.000 1.000 1.000 1.000 .000 OTY PER YIELD 1.000 1.000 1.000 1.000 1.000 1.000 2.000 2.000 5.000 2.000 5.000 2.000 2.000 2.000 4.000 5.000 4.000 ď NO. CAPACITOR ASY BASIC Rζ A B WASHER, 8, FLAT, SML OD -. 375, ZINC NUT, 8-32, HEX, STD, CS LUG, #10, SOLDER, INT LOCK, ANGLE CLAMP, CAP, RND, VERT, 3IN, DIA RES, 1.0K, 10W, 5%, WW, AXL SCREW, 6-32 X .375, PPH SCREW, 8-32 X .625, PPH SCREW, 10-32 X .375, SBH WASHER, 6, FLAT ď BRACKET, CAPACITOR WASHER, 8, INT LOCK WASHER, 6, INT LOCK OPCODE: 3 REV: B PHANTOM DESCRIPTION MODEL: ECO NO: DATE OF LAST ECO: 00/00/00 550 CLASS CODE GROUP: 1 CLASS CODE: 550 PART NUMBER 111DE04-01 112EB04-01 896-CMC-48 808-102-05 9071014-01 110DA04-06 110EA04-10 110GH04-06 111DA04-01 111EA04-01 111EE04-01 1070400-04 5071014-BS

66/66/66

### DISTRIBUTION: DEBBIEF BILL OF MATERIAL

AS OF 11/03/99

COMMODITY CLASS PHANTOM

CLASS CODE GROUP: 1 CLASS CODE: 550

FLTR ASSY, INPUT-751/1001/1203 OPCODE: 3 REV: B MODEL: ECO NO: N970473 DATE OF LAST ECO: 05/27/97 5071070 9071070-01 2071070-01 880-20K-1X 893-30A-3P 109-20K-10 1110E04-01 1110DA04-01 110DB04-01 110DB04-01 110DB04-01 PART NUMBE 5071070-01

			NT ON SALES ORDER	S ORDER W/O PR	ES ORDER WITH DEL
POLICY CODE	OPTIONAL	REQUIRED	PRI	TS ON	ON SA
OP: ORDER	REQ: N=PART	Y=PART	PF: N=PART	Y=PART	P=PART

M I	DESCRIPTION	0 P RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR UM	R BP QF	PREP CODE	DAYS OFF SET	SEQ D	EFERENCE ESIGNATOR	EFFECTIV DATE	OBSOLETE	
	FLTR ASSY, INPUT-751/1001/1202	10	(	1 4	1 1	1 1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		1 1	1 1 1 1	1		
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4 6	TILIER, LINE, ZUAAC	3 A	m	1.000	00 EA	B YN	0 0	· c	· c			6/66/6	
	TEKM BLK, 3P, 30A, 600V, FEED-THRU	3 A	4	1.000		2 2			•		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6/66/6	
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_	WASHER, 6, INT LOCK	. ~			4 1	Z ;	•	0	0		00/00/00	66/66/66	
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<b>.</b>	LUG, QUC, MALE, 14-16AWG	Α (۲	10	5.000		F V N			•		0 / 0 0 / 0	6/66/6	
ı.	LUG, #10, RING, 12-10AWG	~	-				•	> (	>		15/21/97	6/66/	
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-	COVER, TB 3PIN LARGE SL/SX	3 A	15	000	4 000				¢ > 0		\ 0 0 \	6/66/	
'n	SCREW, 6-32 X . 312. PPH	~	7 (	,			٠	>	>		00/00/	6/66/	
6	LUG. #6.RING. 16-14 AWG		7 F	000.7	OU EA	F YN	1.000	0	0	_	00/00/00	66/66/66	
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	WASHER, IU, SPLIT LOCK, SS	m	19	1.000	1.000 EA F	N X	00	0			0/10	0/00/0	
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1130316-54

110DA04-05 107-240-09 1130312-54 111FC20-01

1130310-99

COMMODITY CLASS ASSEMBLY, ELGAR - PCB

CLASS CODE GROUP: 1 CLASS CODE: 180

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55C,W/ADH 0 A 9 1.000 LOUG EA F YN .000 0 REF 00/00/00 99/99/99/99/99/99/99/99/99/99/99/99/99/	PW	A, MOTHER BOARD		4 ~	, ,	4 1		Z ;	_	0	R 되	6/66/66 00/00/0
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Name	RE	S, 1, 5K, 2W, 5%	•	,		3 1 0 0 0		N :	0	0		6/66/66 00/00/0
March   Marc	RE	S. 536K, 1/2W. 1%, RN65, MR		) - -		3 0 0 0 0		K N	0.	0	R1,	6/66/66 00/00/0
10-220 3 C 20 1.000 EA B YN 6.000 0 0 R3-8 05/23/97 99/99/99/99/99/99/99/99/99/99/99/99/99/	R	S. 390K. 1 / 4w. 1%. 2500M	, c	<b>⊣</b> .		E 000.		ΧN	0.	0	R9-1	5/23/97 99/99/9
O-220  10.000 1.000 EA F YN 2.000 0 0 C1,2  10.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CA	P. 10HF 50V 10% CRU		71	0.0	H 000.		KN		0	R3-	5/23/97 99/99/9
No.	×	TR. NPN - 80V TTP20B TO-220		9 6	00.	.000 E		N X	00.	0	C1,	6/66/66 00/00/0
156, VERT 0 - 32 1.000 1.000 EA B YN 1.000 0 0 02 0 0/00/00 99/99/99 156, VERT 0 - 32 1.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0/00/00 99/99/99 156, VERT 0 - 34 1.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0/00/00 99/99/99 156, VERT 0 - 38 1.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0 0/00/09 99/99/99 156, VERT 0 - 38 1.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0 0 0/00/09 99/99/99 156, VERT 0 - 40 1.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0 0 0/00/09 99/99/99 156, VERT 0 - 42 3.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0 0/00/09 99/99/99 156, VERT 0 - 44 1.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0 0/00/09 99/99/99 156, VERT 0 - 44 1.000 1.000 EA B YN 1.000 0 0 0 0 0 0 0/00/00 99/99/99 156, VERT 0 - 44 1.000 1.000 EA B YN 1.000 0 0 0 0 0/00/00 99/99/99/99/99/99/99/99/99/99/99/99/99/	×	TR. PNP. 80V 12 TID30B TO 220		) r	00.	. 000 E		ΥN	0.	0	o	6/66/66 00/00/0
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156, VERT 3 - 34 1.000 EA B YN 1.000 0 0 J9 09/17/99 99/99/91 156, VERT 0 - 36 1.000 1.000 EA B YN 1.000 0 0 J5 09/17/99 99/99/91 156, VERT 0 - 40 1.000 1.000 EA B YN 1.000 0 0 J5 09/17/99 99/99/91 156, VERT 0 - 42 3.000 1.000 EA B YN 1.000 0 0 J1 09/17/99 99/99/99/91 156, VERT 0 - 44 1.000 1.000 EA B YN 1.000 0 0 J1 09/17/99 99/99/99/99/99/99/99/99/99/99/99/99/	CO	6.VER		9 6	9 6	A 6		K K	00.	0	υ	6/66/66 00/00/0
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OP: ORDER POLICY CODE
REQ:N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER FINAL ASSY - 1001SLE-21 COMMODITY CLASS ASSEMBLY, ELGAR - FGI OPCODE: 3 REV: B 5071076-01 MODEL: SL/SX ECO NO: N970676 DATE OF LAST ECO: 07/01/97 CLASS CODE GROUP: 1 CLASS CODE: 140

DATE OF LAST ECO:	07/01/97					1 6	ART P	RINTS ON SALES	ORDER WI	O PRICE TH PRICE
PART NUMBER	DESCRIPTION	, O A	ΕZ	QTY PER YIELD ASSEMBLY FACTR		PREP CODE	DAYS OFF SET	REFERENCE DESIGNATO	EFFECTIV DATE	OBSOLETE
71076	FINAL ASSY - 100		[	1000		1 6	1			
071083-	PANEL ASSY, FRONT - 1001SLE		10		<b>.</b> , >	5	<b>&gt;</b> (	0	/00/0	766/6
071082-	- 1001SLE		, -		< >	5	<b>&gt;</b> (	0	0/00/0	166/6
071005-	ANEL LEFT		- 1		< -	5	<b>o</b> (	0	0/00/0	166/6
07108	T - 1001SL		11		η;	9	0	0	0/00/0	66/6
07100	ASSY, DIVIDE		7 -	. 000 I 000	Κ :		0	0	0/00/0	166/6
5071033-01	RAY ASSY SLSERIESA		, r		< ;	5	0	0	0/00/0	6/66/6
5071014-01	Z 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		# u	. 000 I . 000	× :	0	0	0	0/00/0	5/66/6
5920026-01	01SL		7 7	. 000 1. 000	× :	0	0	0	0/00/0	5/66/6
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5070004-01	REAMP BD ASSY, SL		- C	. 000 - 000	ε:	0	0	0	0/00/0	5/66/6
071076-0	KIT, HARNESS - 1001SLE	9 0	9 6	. 000 I 000	Σ >	000	0 (	0	0/00/0	5/66/6
071085-0	-	) A	0 0		€ >		0 (	0	0/00/0	5/66/6
071075-0		, e			۷ ۲	) )	۰ د	0	0/00/0	5/66/6
10EF04-0	, PFH, 82	) , (*)		2000 - 000	E 6		٥ (	0	0/00/0	5/66/6
10DF04-0	, PFH	m	2 4		4 6		<b>5</b>	0 (	0/00/0	5/66/6
	, PPH	. [7]	, C		4 6	8.00	<b>o</b> (	0	0/00/0	5/66/6
0-1	32 X	m	2 2	4 000 1 000 4	4 6	9 6	٥ (	0	0/00/0	6/66/6
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-0	SPL	٣	31	000 1 000 #	. Je	9 6	> 0	<b>.</b>	0/00/	6/66/
	WASHER, 6, INT LOCK	m	32	000 1.000 F	, Ge	9 0	> <	> <	0/00/	6/66/
-0	SHIELD HS SL/SX NMX A	3 A	8	1.000 1.000 1	. n		> 0	<b>-</b>	0/00/	6/66/
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0026-0	CHM HEATSINK 1	3 A	38	000 1 000	; p	9 0	> 0	<b>&gt;</b> (	0/00/	6/66/
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9 / 0	- 10018	3 B	41	000 1 000 E	, p		> <		0/00/	6/66/
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071076-	NUAL, OP	3 A	46	00 1.000 E			> <	i Y	0/00/	6/66/
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	C C	₩ 1	51	1.000 1.000 EA	M	1.000	0		00/00/00	66/66/66
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MU/10/6-02	MANUAL, SERVICE - 1001SLE	3 A	5.4	.000 1.000 EA	PYN	000		Q	00/00/00	66/66/66
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CLASS CODE GROUP CLASS CODE: 5071082-01 MODEL: SL/SX ECO NO: N970473 DATE OF LAST ECO: 0	PART NUMBER

## LI,200,2.MDATAB01 ELGAR CORPORATION WED, NOV 3, 1999, 1:53 PM

COMMODITY CLASS PHANTOM CLASS CODE GROUP: 1 CLASS CODE: 550

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PHANTOM	OPCODE: 3 REV: A 3/10/97	DESCRIPTION		PANEL BOSIFERONT - 1001SEE PANEL FRONT - 751/1001	BRACKET COVER SUPPORT C	CBR, 20A, 2P, 50/60HZ, VDF	LAMP, 12V, SOLID-SATE, VERT CON	METER, 0-300VAC. RECTIFIED	POT, 10K, 2W, 10T, PNL	BINDING POST, 30A, PNL MNT. BIK	ING POST, 30A,	BINDING POST, 30A, 1KV, WHT	HANDLE, 4.87L, 1.06H, ALUM, CLR	METER MOUNT MODEL 82T	SCREW, 6-32 X .375, PPH	ER, 6, INT LOCK	NUT, 6-32, HEX, CS	SCREW, 10-32 X . 500. PFH. 820. CS	LOCK, POT, . 25	LABEL, NAME PLATE - SLE/SXE	WASHER, 7/16, INT TOOTH LOCK	*
550	OPCODE:	0 8 8 0	1 6	PANE	BRAC	CBR,	LAMP	METE	POT,	BIND	BIND	BIND	HAND	METE	SCRE	WASH	NUT,	SCRE	NUT	LABE	WASH	
CLASS CODE:	5071083-01 MODEL: AC SL/SX ECO NO: R1219 DATE OF LAST ECO: C	PART NUMBER	5071083	9071083-01	9261015-01	852-203-46	854-219-12	857-300-82	819-103-53	891-030-00	891-030-02	891-030-09	863-505-25	914-239-20	110DA04-06	111DE04-01	112DB04-01	110GF04-08	109-181-XX	9121050-03	111ME04-01	

DISTRIBUTION: DEBBIEF

BILL OF MATERIAL AS OF 11/03/99 OP: ORDER POLICY CODE

PANEL ASSY, RIGHT - 1001SLE COMMODITY CLASS OPCODE: 3 REV: B PHANTOM CLASS CODE GROUP: 1 CLASS CODE: 550 5071084-01 MODEL: SL

EFFECTIV OBSOLETE 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 REQ:N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 DATE 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 05/27/97 00/00/00 00/00/00 00/00/00 DATE DESIGNATOR 1111111 REFERENCE TS1,2 R9-15 AR SEQ 0 DAYS OFF SET .000 7.000 1.000 1.000 1.000 1.000 2.000 2.000 2.000 4.000 000. 2.000 6.000 PREP N E O ΕA ΕA ΕA ΕÀ ΕA ΕA E EΑ ΕA ΕÀ ΕA ΕÀ 0000 000. FACTR 000. 1.000 000. 000. 000. 1.000 000. 1.000 1.000 000. 000. 000. 1.000 1.000 1.000 1.000 1.000 1.000 2.000 QTY PER 000. 000. 4.000 ASSEMBLY 2.000 2.000 ..000 1.000 2.000 00009 000. 4.000 000 4.000 4.000 NO. ITEM 18 25 RV 1 1 m 4 CAAH m ф PANEL ASSY, RIGHT - 1001SLE TERM STRIP, 6P, .375IN, LUG TYPE RES, 300, 5W, 5\$, WW, AXL PANEL, RIGHT SIDE - 751/1001 XFMR, PWR, 115/230V, 25VA, VDE XFMR ASSY, OUTPUT-1001SL ADHSV, SMALL SCREW, THREADLCK222 SCREW, 4-40 X .375, PPH SHIELD, XFMR - 1001SLE CURRENT XFMR U.L.MAT A SCREW, 8-32 X .375, PFH, 82D WASHER, 10, FLAT NUT,8-32,HEX,STD,CS SCREW,6-32 X .312,PPH SCREW,1/4-20 X .625 PPH WASHER,8,SPLIT LOCK WASHER, 4, SPLIT LOCK NUT, 4-40, HEX, STD, CS WASHER, 4, FLAT DESCRIPTION BCO NO: N970473 DATE OF LAST ECO: 05/27/97 PART NUMBER 110HA04-10 111EC04-01 893-56X-XX 807-301-05 9071084-01 850-412-25 5071073-01 991-260-90 110EF04-06 110DA04-05 111FA04-01 112EB04-01 109-961-2X 110CA04-06 111CC04-01 9071086-01 112CB04-01 111CA04-01 5071084

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COMMODITY CLASS PHANTOM CLASS CODE GROUP: 1 CLASS CODE: 550

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550 PHANTOM	OPCODE: 3 REV: A PLATE ASSY,	DESCRIPTION	PLATE ASSY, BRACE - 1001SLE RLATE, BRACE - 1001SLE RECT, BRDG, 1PH, 200V, 30A SLEEVING, #22, CLR VINYL CAP, 100F, 600V, 108, FILM LUG, #6, SOLDER, INT LOCK, ANGLE LUG, #1/4, SOLDER, INT LOCK, FLAT WASHER, SHLDR, #1/4, 625 OD, NYL SCREW, 8-32 X 875, PPH WASHER, 8, FLAT, SDL WASHER, 8, FLAT, SRL WASHER, 8, SPLIT LOCK WASHER, 1/4, FLAT, BRS WASHER, 1/4, FLAT, BRS NUT, 6-32, HEX, CS NUT, 6-32, HEX, CS THERMAL COMPOUND	
CLASS CODE:	5071085-01 MODEL: ECO NO: R1219 DATE OF LAST ECO: 03/10/97	PART NUMBER	5071085 9071085-01 847-990-3X 842-104-06 1070400-02 1070400-05 109-420-SW 110EA04-14 111EEA04-01 111EC04-01 111HB10-24 111HB10-01 111HB10-01 111HB10-01 1112DB04-01	

AS OF 11/03/99

COMMODITY CLASS

ELGAR CORPORATION

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3, 1999,

LI,200,2.MDATAB01 WED, NOV 3, 1999

08/01/96 99/99/99 66/66/66 00/00/00 EFFECTIV OBSOLETE 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 PF: N=PART DOES NOT PRINT ON SALES ORDER
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CAP, 100F, #600V, 10%, FILM
LUG, #6, SOLDER, INT LOCK, ANGLE
LUG, #1/4, SOLDER, INT LOCK, FLAT
WASHER, SHLDR, #1/4, 625 OD, NYL
SCREW, 1/4-20 X 1.50, SPH, BRS WASHER, 1/4, INT STAR, BRS NUT, 6-32, HEX, CS WASHER, 1/4, FLAT, BRS NUT, 1/4-20, HEX, BRS BRACE PLATE ASSY OPCODE: 3 REV: C PHANTOM DESCRIPTION BRACE PLATE ECO NO: N950482 DATE OF LAST ECO: 06/29/95 CLASS CODE GROUP: 1 CLASS CODE: 550 PART NUMBER 111HE10-01 112DB04-01 112HB10-01 995-SLV-10 822-104-06 1070400-02 1070400-05 109-420-SW 9071009-01 110HB10-24 111HA10-01 5071009-01 5071009 MODEL:

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## DISTRIBUTION: DEBBIEF BILL OF MATERIAL

AS OF 11/03/99

66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 EFFECTIV OBSOLETE 66/66/66 66/66/66 66/66/66 PRINTS ON SALES ORDER W/O PRICE PRINTS ON SALES ORDER WITH PRICE DATE DOES NOT PRINT ON SALES ORDER 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 DATE REFERENCE DESIGNATOR J6A, 6B, 7A, U1A,U1B R7A,R7B C1B, 2B ORDER POLICY CODE REQ:N=PART OPTIONAL Y=PART REQUIRED 7 B SEQ 0 0 0 0 0 0 0 0 DAYS P=PART SET N=PART Y=PART OFF 0000 00000 0 1.000 1.000 2.000 4.000 2.000 .000 000. 000. 2.000 2.000 2.000 2.000 4.000 4.000 18.000 18.000 10.000 8.000 2.000 PREP CODE 0 P : PF: 民宜区 **M M M M** æ 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 000 OTY PER YIELD ASSEMBLY FACTR 1.000 000 0000 1.000 2.000 2.000 2.000 2.000 000. 18.000 18.000 10.000 000. 1.000 4.000 4.000 4.000 000. 4.000 2.000 4.000 2.000 - 1751SLE ITEM NO. RΛ 1008 O Fe DIVIDER ASSY CAP, 27KUF, 75V, -10/+75%, AL, RAD SCREW, 8-32 X .625, PPH WASHER, 8, FLAT, SML OD-.375, ZINC WASHER, 8, INT LOCK XFMR ASSY, INPUT 1751SL/SX GROMMET, RUBBER, 1/41D 3/8 OD RECT, BRDG, 100A, 200V, 1PH CONN, 12P, 15A, PNL MNT, SKT CLAMP, CAP, RND, VERT, 3IN, DIA SCREW, 4-40 x .375, PPH WASHER, 4, INT LOCK NUT,6-32,HEX,CS SCREW,1/4-20 X .500,PPH WASHER,1/4,SPLIT LOCK SCREW, 6-32 X .375, PPH WASHER, 6, INT LOCK WASHER, 6, FLAT COMMODITY CLASS DIVIDER ASSY, 1751SL NUT, 8-32, HEX, STD, CS RES, .015,50W,5%,WW DIVIDER 1751SL/SX WASHER, 1/4, FLAT OPCODE: 3 REV: PHANTOM DESCRIPTION 5121010-03 MODEL: ECO NO: R1219 DATE OF LAST ECO: 03/10/97 550 CLASS CODE GROUP: 1 CLASS CODE: PART NUMBER 826-273-75 110EA04-10 9121010-01 5121044-01 109-217-0X 847-100-AB 856-412-S1 810-R15-05 896-CMC-48 110CA04-06 110DA04-06 111DE04-01 111DA04-01 112DB04-01 110HA04-08 111HC04-01 111HA04-01 111EA04-01 111CE04-01 112EB04-01 5121010

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PRINTS ON SALES ORDER WITH PRICE DATE 00/00/00 EFFECTIV 00/00/00 01/28/99 00/00/00 00/00/00 00/00/00 00/00/00 DATE REQUIRE DESIGNATOR REFERENCE 01-32 CR1-4 ORDER POLICY CODE RB1-4 TK1 REQ: N=PART OPTIONAL AS SEQ 0 0 0 0 00 P=PART SET Y-PART N-PART OFF Y=PART 4.000 4.000 000. 000. 2.000 6.000 6.000 84.000 2.000 1.000 1.000 4.000 1.000 4.000 2.000 32.000 4.000 1.000 8.000 20.000 16.000 16.000 4.000 CODE PREP PF: N H O P P N K Z Z Z Eu Eu ω m œ Eu Eu Eu Eu 14 Ğ. 52 EA 1.000 1.000 1.000 000 000 000. 4.000 2.000 ASSEMBLY 4.000 QTY PER 000 000. 000. 000. 000. 000. 84.000 1.000 000.9 6.000 000. 4.000 1.000 20.000 000.9 32.000 16.000 4.000 16.000 64.000 16.000 16.000 000.9 . 0N ITEM 2.4 2.5 30 35 37 37 37 ASSY W/TK 1751SL RV . . . . . . . . . . . . . . . A O **4** - HEATSINK STDF, 8-32 X .500L, .25HX, F/F, AL SCREW, 8-32 X .375, PPH WASHER, 8, FLAT, SML OD-. 375, ZINC LUG, QDC, 16-14AWG, FEM, . 250, NYL CBL-H/S SL SERIES XSTR, NPN, 16A, 170V, SELECT, TO3 RECT, PWR, 200V, 20A WIRE, 16AWG, 300V, WHT, UL, 80C WIRE, 22AWG, 300V, WHT, UL, 105C THERMOSTAT, SW, NO, CLS, 200F TERM TAB, 1/4, 45DEG, .032 SCREW, 6-32 X .375, PPH SCREW, 6-32 X .500, PPH TIE WRAP, 4.51 INCH INTH **444** S SCREW, 4-40 X .250, PPH WASHER, 4, INT LOCK ASSEMBLY, ELGAR SCREW, 6-32 X .312, PPH CLASS SCHEM HS ASSY 1751SL MTG PLATE-HS 1751SL HEATSINK RES BD ASSY WASHER, 8, SPLIT LOCK WASHER, 1/4, INT STAR NUT, 1/4-20, HEX, CS WASHER, 6, SPLIT LOCK HEATSINK-8 TO3, 14" NUT, 6-32, MTG CLIP WASHER, 6, INT LOCK COMPOUND COMMODITY Д WASHER, 6, FLAT REV: DESCRIPTION OPCODE: 3 ECO NO: N990078 DATE OF LAST ECO: 01/28/99 150 CLASS CODE GROUP: 1 CLASS CODE: MODEL: SL/SX PART NUMBER 1130216-99 111HE04-01 112HB04-01 9920026-01 9121011-01 5070003-01 5970022-01 841-V62-59 845-368-DX 110DA04-06 110DA04-08 896-TY2-3M 110DA04-05 109-844-3X 110EA04-06 111EA04-01 111EC04-01 111DE04-01 6121024-01 07-233-09 110CA04-04 111CE04-01 1130222-99 109-961-22 861-340-0X 895-KT5-3X 109-C80-91 111DA04-01 111DC04-01 5121024-01

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COMMODITY CLASS LI,200,2.MDATAB01 ELGAR CORPORATION WED, NOV 3, 1999, 1:53 PM

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22 16.000 1.000 EA F YN 16.000 0 0 0 00/00/00 99/99/9 23 16.000 1.000 EA F YN 16.000 0 0 0 0 00/00/00 99/99/9 24 6.000 1.000 EA F YN 6.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CORRECTANTS CLIF
23 16.000 1.000 EA F YN 6.000 0 0 0 00/00/00 99/99/9 24 6.000 1.000 EA F YN 6.000 0 0 0 0 00/00/00 99/99/9 25 6.000 1.000 EA F YN 6.000 0 0 0 0 00/00/00 99/99/9 26 6.000 1.000 EA F YN 6.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WASHER, 6, FLAT
24 6.000 1.000 EA F YN 6.000 0 0 0 00/00/00 99/99/9 25 6.000 1.000 EA F YN 6.000 0 0 0 0 00/00/00 99/99/9 26 6.000 1.000 EA F YN 6.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WASHER, 6, SPLIT LOCK
25 6.000 1.000 EA F YN 6.000 0 0 0 00/00/00 99/99/9 26 6.000 1.000 EA F YN 6.000 0 0 0 0 00/00/00 99/99/9 27 6.000 1.000 EA F YN 6.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STDF, 8-32 X .500L, .25HX, F/F, AL 3
26 6.000 1.000 EA F YN 6.000 0 0 0 00/00/00 99/99/99 27 6.000 1.000 EA F YN 84.000 0 0 0 00/00/00 99/99/99 28 84.000 1.000 EA F YN 84.000 0 0 0 00/00/00 99/99/99 30 4.000 1.000 EA F YN 4.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SCREW, 8-32 X .375, PPH 3
27 6.000 1.000 EA F YN 6.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WASHER, 8, FLAT, SML OD 375, ZINC 3
28 84.000 1.000 EA F YN 84.000 0 0 0 00/00/00 99/99/9 29 .000 1.000 EA P YN .000 0 0 0 00/00/00 99/99/9 30 4.000 1.000 EA F YN 4.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WASHER, 8, SPLIT LOCK
29 .000 1.000 EA P YN .000 0 0 00/00/00 99/99/9 30 4.000 1.000 EA F YN 4.000 0 0 0 01/28/99 99/99/9 35 1.000 1.000 EA F YN 1.000 0 0 0 0 0 0/00/00 99/99/9 37 .000 1.000 EA F YN 4.000 0 0 0 0 00/00/00 99/99/9 38 4.000 1.000 EA F YN 4.000 0 0 00/00/00 99/99/9 39 4.000 1.000 EA F YN 4.000 0 0 00/00/00 99/99/9	WASHER, 6, INT LOCK
30 4.000 1.000 EA F YN 4.000 0 0 0 01/28/99 99/99/9 35 1.000 1.000 EA F YN 1.000 0 0 AS REQUIRE 00/00/00 99/99/9 37 .000 1.000 EA F YN 4.000 0 0 0 0 00/00/00 99/99/9 38 4.000 1.000 EA F YN 4.000 0 0 0 00/00/00 99/99/9 39 4.000 1.000 EA F YN 4.000 0 0	SCHEM HS ASSY 1751SL A 3
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8 4.000 1.000 EAF YN 4.000 0 0 00/00/00 99/99/9 9 4.000 1.000 EAF YN 4.000 0 0 00/00/00 99/99/9	THERMAL COMPOUND
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CLASS ELGAR - FGI	FINAL AS		51SLE	T - 1751SLE/SXE	ASSY, REAR-1751SLE/SXE	73132 A T-1751SLE/SXE	1751SLE	SLSERIESA		51SL A	0 L 0 L 0 T.	Ι.	SY	¥.		.375, PFH, 82D	/5, PFH	75, PPH	75, PFH, 82D	.312, РРН	LOCK	;	N W W W	1751ST.E	1751SL A	SL A	1751SLE	SSY - 175	- 10018	- 1001SL		A	PANEL-SL/SX	1001SLE	G, THERMAL	CERTIFICATION
COMMODITY ASSEMBLY,	DE: 3 REV: C	IPTION	ASSY - 17		- (	EFT SIDE FNL 1/31SL A ANRL ASSY, RIGHT-1751SLE	DIVIDER ASSY - 1751SLE	SC TRAY ASSY S	CAPACITOR ASSY	S ASSY W/TK 17	I WO/Th I	MOTHER-SLE	BRACE PLATE ASS		-32 X	-32 X	× 75-9	4 ×	-32 X	40 X	8, SPLI	I'9'	SHIELD HS SL/SX NMX	TOTAL MARKETS - INTE	×	BD	N DIAG -	WIRELIST, CHAS AS	AS	г,ор	BLE ASSY	LE ASSY	LE ASSY, REAR	MANUAL, SERVICE	LABEL, SERIAL TAG,	EL, CE CERTIF
GROUP: 1 140	OPCODE 0: 07/01/9	DES	FINAL	PAN	PANEL	PAR	DIU	OSC	CAP	HS	H/S AS	E M G	BRA	BRACE	SCREW	SCR	SCR	20 C	SCR	SCREW	WAS	WAS	SHI	1 E L X	SCHEM	SCH	INI	WIR	ATP	MAN	CAB	CABLE	CABLE	MAN	LAB	LABEL
CLASS CODE GI CLASS CODE:	5121045-01 MODEL: SL/SX ECO NO: N970676 DATE OF LAST ECO:	F. D. M.	5121045	121049	21048-0		121010	071033-0	071014	5121024-01	121024 50121	071075	071009	071009	110EF04-04	110DF04-06	110DA04-06	110EA04-04	110EF04-06	110CA04-05	111EC04-01	111DE04-01	9071050-01	H121045-01	6121024-01	1	1045	2104	71076	71076-	5970008-01	5970009-01	5121051-01	71076-0	200-0	161295-0

66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 OBSOLETE 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 DOES NOT PRINT ON SALES ORDER PRINTS ON SALES ORDER W/O PRICE PRINTS ON SALES ORDER WITH PRICE DATE EFFECTIV 00/00/00 DATE DESIGNATOR REFERENCE TS1,2 R9-15 ORDER POLICY CODE REQ: N=PART OPTIONAL Y=PART REQUIRED UA2 H 2 SEQ 0 00 0 0 0 0 DAYS P=PART OFF N=PART Y=PART 4.000 000. 000. 000. 000. 000. 000. 000. 000. .000 000: 2.000 7.000 000.1 000 .000 .000 .000 .000 000. .000 .000 000. 000. CODE PREP 0 P : PF: RE O N N N N K K K K K K  $\mathbf{u} \times \mathbf{u} \in \mathbf{r} \in \mathbf{r} \in \mathbf{r} \in \mathbf{r} \times \mathbf{u} \times \mathbf{u} \times \mathbf{r} \in \mathbf{r} \in \mathbf{r}$ EΑ 000 1.000 000.1 000.1 000.1 000.1 000.1 000. 000 000 000 000.1 000. 000.1 1.000 .000 000.1 000.1 000.1 ASSEMBLY 000 0000 000 00001 1.000 QTY PER 000. 4.000 000. 4.000 4.000 4.000 000. .000 000. .000 .000 .000 000. PANEL ASSY, RIGHT-1751SLE/SXE ITEM NO. 8 - 4 4 K υщщ NUT, 6-32, HEX, CS NUT, 8-32, HEX, SMALL, CS WASHER, 8, FLAT, SML OD-.375, ZINC WASHER, 8, SPLIT LOCK TERM STRIP, 6P, . 375IN, LUG TYPE PANEL ASSY, RIGHT-1751SLE/SXE XFMR, PWR, 115/230V, 25VA, VDE RECT, BRDG, 1PH, 200V, 30A SCREW, 6-32 X .375, PFH, 82D XFMR ASSY, OUTPUT-1751SL/SX SCREW,6-32 X .312, PFH,82D SCREW,6-32 X .312, PPH SCREW,1/4-20 X .625 PPH WASHER,6,INT LOCK Ø CURRENT XFMR U.L.MAT A WASHER, 1/4, SPLIT LOCK NUT, 1/4-20, HEX, CS PCB ASSY HI CURRENT SCREW, 8-32 X .875, PPH SCREW, 4-40 X .375, PPH COMMODITY CLASS RES, 300, 5W, 5%, WW, AXL WASHER, 4, SPLIT LOCK NUT, 4-40, HEX, STD, CS RT SIDE PNL 1751SL THERMAL COMPOUND WASHER, 1/4, FLAT ď WASHER, 6, FLAT WASHER, 4, FLAT OPCODE: 3 REV: PHANTOM DESCRIPTION DATE OF LAST ECO: 03/10/97 550 CLASS CODE GROUP: 1 CLASS CODE: 550 ECO NO: R1219 PART NUMBER 893-56X-XX 807-301-05 9121009-01 991-260-90 110DF04-05 110HA04-10 847-990-3X 110DF04-06 111CA04-01 5121043-01 110DA04-05 112HB04-01 850-412-25 112DB04-01 109-961-22 110CA04-06 111CC04-01 112CB04-01 111DE04-01 111HA04-01 111HC04-01 5070009-01 111DA04-01 112EA04-01 111EA04-01 111EC04-0] 110EA04-14 5121047-02 5121047 MODEL:

LI,200,2.MDATAB01 ELGAR CORPORATION WED, NOV 3, 1999, 1:53 PM

CLASS CODE GROUP	UP: 1 COMMODITY CLASS 550 PHANTOM					OP:	ORDER 1	POLICY	O A		
5121048-01	OPCODE: 3 REV: C PANEL ASSY,	REAR-1751	SLE/SXE			y	#PAR =PAR	- D (C	RED NOT PRIN	N SALE	RDE
MODEL: ECO NO: N970473 DATE OF LAST ECO:	05/27/97						Y=PART P=PART	нн	S ON SALES	ORDER WI	д н
GE SWIN	NOTEGERAC	O ITEN	M QTY PER ASSEMBLY	YIEL FACT	S S S S S S S S S S S S S S S S S S S	P PREP CODE	DAY	S S B O	REFERENCE DESIGNATOR	EFFECTIV DATE	OBSOLETE DATE
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5121048		o ta		000	• ×		000	0		0/00/0	6/66/6
1041-01 100-EBK-13	TOTO THE BIOLOGY SEE SECO	n m	1.00	1,000	m	·	00	0		0/00/0	6/66/6
1630-0	BRKT. MTG. FERRITE BLOCK-VXP3000		1.00	1.00	A B Y	YN 1.0	00	0		0/00/0	6/66/6
1100804-05	SCREW, 6-32 X .312, SEMS, PPH, CS	æ	00.9	1.000	ഥ	9	00	0		0/00/0	6/66/6
9161175-05	LABEL, OUTPUT, SAFETY GND	Ą	1.00	1.000	В	ij.	00	0		0/00/0	6/66/6
9121048-01	PANEL, REAR - 1751 SLE/SXE	В	1.00	1.000	Ø	1.	00	0		4/10/9	6/66/6
9960019-01		C 1	1.00	1.000	æ	1.	0 0	0		0/00/0	6/66/6
9961198-01	LABEL, SERIAL TAG	A 1	1.00	1.000	щ	<u>-</u>	00	0		0/00/0	6/66/6
853-550-6X	GUARD, FAN, RND, 6.38 IN	В 1	2.00	1.000	щ	N 2.	0.0	0		0/00/0	6/66/6
853-230-01	FAN, 220-230VAC, 200-235CFM, VDE	в 1	2.00	1.000		N 2.	00	0	В1	0/00/0	6/66/6
863-505-25	HANDLE, 4.87L, 1.06H, ALUM, CLR	E 1	1.00	1.000	щ	N 1.	00	0		0/00/0	6/66/6
93-141-0	TERM BLK, 8P, 20A, 14AWG, 1100RMS	В 1	00.	1.000	æ	z	00	0	FI FI	0/00/0	6/66/6
. 6	JUMPER, TERM BLOCK, 438 SPACING	0 A 1	2.00	1.000		N 2.	00	0	OR TB3	0/00/0	6/66/6
93-	TERM BLK, 5P, 30A, 600V, FEED-THRU	3 A 1	1.00	1.000		N 1.	00	0	В1 &	0/00/0	6/66/6
93-142	TERM BLK, JUMPER, . 56 CNTR	3 A 2	2.00	1.000		•	00	0	OR TB1	0/0	6/66/6
									B2		
0-1	CAP, . 22UF, 600V, 10%, FILM	C 5	1 4.000	1.000 E	A B Y	N 4	0 0 0	0	3-C6	00/00/00	66/66/66
109-839-75	STDF, 6-32 X .750L, .31HX, F/F, SS	3 A 2	2.00	1.000	щ	N 2.	00	0	FOR TB1 &	0/00/0	6/66/6
		,		,	ĸ	2		•	9	0/00/0	6/66/6
110DA04-10	SCREW, 6-32 X .625, FPH	3 A A	0000	1.000	4 fz C 41		00			0	166
	NOTE TO THE TOTAL	1 0	2.00	1.000	in A	z	0 0	0		0/00/0	6/66/6
807-586-05	RES. S. 6.5W. 58. WW. AXI	7	4.00	1.000	Æ	N 4.	0.0	0	R3,4,5,6	0/00/0	6/66/6
12DB04-0	NUT, 6-32, HEX, CS	3	2.00	1.000	Æ	N 2.	0.0	0		0/00/0	6/66/6
1110504-01	WASHER, 6, INT LOCK	3	8.00	1.000	Æ	N 8.	00	0		0/00/0	6/66/6
1110804-01	WASHER, 6, FLAT	e	4.00	1.000	A F	N 4.	0.0	0		0/00/0	6/66/6
111FC04-01	WASHER, 10, SPLIT LOCK	9	2.00	1.000	Æ	N 2.	0 0	0		0/00/0	6/66/6
109-309-2X	PLUG, HOLE, . 500, NYLON, BLK	4	2.00	1.000	A F	N 2.	0 0	0		0/00/0	6/66/6
OZS-S6	SLEEVING, #22, CLR VINYL	- 4	1.50	1.000	A F	N 1.	00	0		0/00/0	6/66/6
111DC04-01	WASHER, 6, SPLIT LOCK	4	1.00	1.000	A F	N 1.	00	0		5/27/9	6/66/6
09-093	GROMMET, FLEX STRIP, . 093 NYLON	A 4	1.00	1.000	E	N 1.	00	0		5/27/9	6/66/6
110EA04-10	SCREW, 8-32 X .625, PPH	4	4.00	1.000	il K	N 4	00	0 (		5/27/9	6/66/6
111EC04-01	WASHER, 8, SPLIT LOCK	4	4.00	1.000	Æ	N 4	00	۰ ۵		6/17/9	6/66/6
112EB04-01	NUT, 8-32, HEX, STD, CS	4	4.00	1.000	Æ	4.	00	>		5/21/9	6/66/6

AS OF 11/03/99 ELGAR CORPORATION 1:53 PM LI,200,2.MDATAB01 WED, NOV 3, 1999,

66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 EFFECTIV OBSOLETE 66/66/66 66/66/66 66/66/66 66/66/66 N=PART DOES NOT PRINT ON SALES ORDER Y=PART PRINTS ON SALES ORDER W/O PRICE P=PART PRINTS ON SALES ORDER WITH PRICE 00/00/00 00/00/00 05/27/97 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 09/02/98 DATE REFERENCE DESIGNATOR DS1 M1 R1 E3 E3 REQ: N=PART OPTIONAL REQUIRED ORDER POLICY SEQ 0 0 0 000000000 DAYS S E E Y-PART PF: N=PART 1.000 1.000 000. 1.000 1.000 000.1 1.000 1.000 000.1 .000 2.000 000.9 000.9 4.000 000.1 2.000 2.000 1.000 PREP K E O ΕA EA 000.1 .000 .000 000. .000 000. 1.000 1.000 1.000 000. 000. 1.000 FACTR QTY PER ASSEMBLY 000 000. 000 0000: .000 000. 000. 1.000 000 000. 000. 000. 000. 000. 000. PANEL ASSY, FRONT - 1751SLE/SXE 113 114 116 117 118 21 NO. ITEM 8 BINDING POST, 30A, PNL MNT, BLK
BINDING POST, 30A, PNL MNT, RED
BINDING POST, 30A, PNL MNT, RED
BINDING POST, 30A, 1KV, WHT
HANDLE, 7. 62L, 10-32, CHROME
METER MOUNT MODEL 82T
SCREW, 6-32 x 375, PPH
WASHER, 6, 1NT LOCK
NUT, 6-32, HEX, CS
SCREW, 10-32 x .500, PFH, 82D, CS
NUT, LOCK, POT, .25 SHAFT
LABEL, NAME PLATE - SLE/SXE PANEL ASSY, FRONT - 1751SLE/SXE PANEL, FRONT - 1751SLE/SXE LAMP, 12V, SOLID-SATE, VERT, GRN WASHER, 7/16, INT TOOTH LOCK METER, 0-300VAC, RECTIFIED BRACKET COVER SUPPORT C CBR, 30A, 2P, 50/60HZ, VDE COMMODITY CLASS POT, 10K, 2W, 10T, PNL ပ OPCODE: 3 REV: PHANTOM DESCRIPTION MODEL: AC SL/SX ECO NO: N980937 DATE OF LAST ECO: 09/02/98 550 CLASS CODE GROUP: 1 CLASS CODE: PART NUMBER 914-239-20 110DA04-06 852-303-46 857-300-82 819-103-53 891-030-00 891-030-02 891-030-09 863-525-25 111DE04-01 110GF04-08 9121049-01 9261015-01 854-219-12 112DB04-01 109-181-XX 9121050-02 111ME04-01 5121049-02 5121049

PAGE NO:

AS OF 11/03/99

DOES NOT PRINT ON SALES ORDER OP: ORDER POLICY CODE REQ:N=PART OPTIONAL Y=PART REQUIRED N=PART PF: Ø H-SINK W/TK 1001SL - HEATSINK COMMODITY CLASS ASSEMBLY, ELGAR OPCODE: 3 REV: F ECO NO: N990471 DATE OF LAST ECO: 04/30/99 CLASS CODE GROUP: 1 CLASS CODE: 150 CLASS CODE: MODEL: SL/SX 5920026-01

66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 EFFECTIV OBSOLETE 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 66/66/66 Y=PART PRINTS ON SALES ORDER W/O PRICE P=PART PRINTS ON SALES ORDER WITH PRICE DATE 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 11/25/98 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 00/00/00 04/30/99 04/30/99 96/90/60 00/00/00 00/00/00 DATE REFERENCE DESIGNATOR Q1-16 CR1,2 TK1 SEQ 00000 000000000000000000000000 000. 8.000  $\frac{2.000}{2.000}$ 2.000 2.000 2.000 4.000 .500 16.000 2.000 1.000 16.000 1.000 10.000 8.000 4.000 32.000 1.000 2.000 CODE O E P **UUZZUUUUFFFFFFFFFFF** EEA ΕÀ ΕA ΕÀ ΕÀ ΕA ΕÀ ΕA ΕA ΕA EA ΕA ΕA EA ΕA ΕA EΑ ΕÀ EAA 000. 000. 000. 1.000 000. 000. 000. 000. 000. 000. 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .000 .000 1.000 1.000 1.000 1.000 .000 .000 .000 .000 000. 000. 1.000 1.000 4.000 4.000 000. 2.000 2.000 2.000 ASSEMBLY 2.000 4.000 4.000 42.000 2.000 2.000 2.000 2.000 1.000 16.000 1.000 4.000 10.000 8.000 4.000 8.000 32.000 8.000 8.000 . 0 N 28 . . . . . . . . . . . . ď Δ A B m а Ø WASHER, 6, SPLIT LOCK STDF, 8-32 X .500L, .25HX, F/F, AL SCREW, 8-32 X .375, PPH WASHER, 8, FLAT, SML OD-.375, ZINC WASHER, 8, SPLIT LOCK XSTR, NPN, 16A, 170V, SELECT, TO3
RECT, PWR, 200V, 20A
THERMOSTAT, SW, NO, CLS, 200F
TERM TAB, 1/4, 45DEG, .032
SCREW, 6-32 X .375, PPH
SCREW, 6-32 X .500, PPH
TIE WRAP, 4.51 INCH LNTH
NUT, 6-32, MTG CLIP
SCREW, 6-32 X .312, PPH
WASHER, 6, FLAT LUG, QDC, 16-14AWG, FEM, . 250, NYL WIRE, 16AWG, 300V, WHT, UL, 80C WIRE, 22AWG, 300V, WHT, UL, 105C NUT, 10-32, HEX, STD, CS HTSK, ALUM, SUBSTRAT, D04 HTSK ASSY, W/TK-1001SL HTSK, ALUM, SUBSTRAT, T03 SCREW, 4-40 X .250, PPH WASHER, 4, INT LOCK SCHM HEATSINK 1001SL HEATSINK RES BD ASSY HEATSINK-8 TO3, 14" MTG PLATE HEATSINK WASHER, 10, INT LOCK CBL-H/S SL SERIES WASHER, 6, INT LOCK DESCRIPTION PART NUMBER 845-368-DX 896-TY2-3M 110DA04-05 107-233-09 1130216-99 1130222-99 9920026-01 9071010-01 5070003-01 5970022-01 841-V62-59 861-340-0X 895-KT5-3X 110DA04-06 110DA04-08 109-C80-91 111DA04-01 111DC04-01 109-844-3X 110EA04-06 111EA04-01 111EC04-01 111DE04-01 6920026-01 110CA04-04 111CE04-01 894-T03-TP 894-D04-TE 111FE04-01 112GB04-0] 5920026

COMMODITY CLASS CLASS CODE GROUP: 1 CLASS CODE: 150 59200 MODEL ECO N

CLASS CODE:	150 ASSEMBLY, ELGAR - HEATSIN	X			OP: ORDER	POLICY	CODE		
			,		4	RECTIONS I	a <i>e</i>		
5920026-02 MODEL: SI/SY	OPCODE: 3 REV: F H-SINK WU/TK	21001	4		FPA	T DOES NO	PRINT		図
ECO NO: N990471					PA		N SALES	<b>\</b>	PRICE
LAST ECO:	04/30/99				# P4	PRINT	SALES	ORDER WIT	H PRICE
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		0	H	IELD		Ēt.	RENCE	ECTIV	70
PART NUMBER		P RV		SSEMBLY FACTR UM SC QF	CODE	I SEQ D	SIGNATOR	DATE	DATE
11111111111111111111111111111111111111	HERK BOOV W/HK-1001ST.	1 0	 	00 1.000 EA P YN	000.	   0 		6/90/6	/66/6
9920026	HENDERING BOLL A. B.	1 E	. 6	0 1.000 EA B Y	00.			00/00/00	6/
97200201	NED TO TAKE	) A	10	000 1.000 EA B Y	.00			\	6/66/
5070003=01	HEATSTAN RES BD ASSY A	4 A	11	.000 1.000 EA	.00		1,2	0/00/0	6/66/6
5970022		EI CO	12	.000 1.000 EA	00.			0/00/0	6/66/6
841-V62-59	XSTR, NPN, 16A, 170V, SELECT, TO3	3 0	13	.000 1.000 EA	00.		-16	0/00/0	6/66/6
845-368-DX	RECT, PWR, 200V, 20A	3 D	14	.000 1.000 EA B Y	2.000	0		0/00/0	6/66/6
9	TERM TAB, 1/4, 45DEG, .032	3 D	16	.000 1.000 EA B Y	00.			0/00/0	6/66/6
	SCREW, 6-32 X .375, PPH	က	17	.000 1.000 EA F	00.			0/00/0	6/66/6
110DA04-08	SCREW, 6-32 X .500, PPH	က	18	.000 1.000 EA F	00.			0/00/0	6/66/6
896-TY2-3M		3 B	19	.000 1.000 EA F	00.			0/00/0	6/66/6
109-080-91	ပ	3	20	00 1.000 E	8.00	0		<u> </u>	6
110DA04-05	SCREW, 6-32 X .312, PPH	က	21	.000 1.000 EA F	0			0/00/0	6/66/6
111DA04-01	E	e	22	.000 1.000 EA F	00.			0/00/0	6/66/6
111DC04-01	WASHER, 6, SPLIT LOCK	2	23	.000 1.000 EA F	00			0/00/0	6/66/
109-844-3X	STDF, 8-32 X .500L, .25HX, F/F, AL	Э Э	24	.000 1.000 EA F	00.			0/00/0	6/66/6
110EA04-06	SCREW, 8-32 X .375, PPH	e	25	1.000 EA F	°.			0/00/0	6/66/6
111EA04-01	WASHER, 8, FLAT, SML OD375, ZINC	٣	5 6	.000 1.000 EA F	00.			0/00/0	6/66/6
111EC04-01	WASHER, 8, SPLIT LOCK	٣	2.7	.000 1.000 EA F	00		•	0/00/0	6/66/6
1110504-01	WASHER, 6, INT LOCK	m	28	00 1.000 EA	00.			/00/0	6/66/6
6920026-01	SCHM HEATSINK 1001SL A	3 A	. 29	00 1.000 EA	00.			0/00/0	6/66/6
107-233-09	LUG, ODC, 16-14AWG, FEM, . 250, NYL	3 D	3.4	00 1.000 EA	0			1/25/	6/66/6
1130216-99	WIRE, 16AWG, 300V, WHT, UL, 80C	2	35	00 1.000 FT F	. 50	0 0		0/00/0	6/66/6
894-T03-TP	HTSK, ALUM, SUBSTRAT, T03	3 B	3.7	.000 1.000 EA	00.			0/00/0	6/66/6
11FE04	WASHER, 10, INT LOCK	٣	38	00 1.000 EA	0			4/30/9	/66/6
112GB04-01	NUT, 10-32, HEX, STD, CS	m	39	.000 1.000 EA	00.	0		4/30/9	6/66/6
894-D04-TP	HTSK, ALUM, SUBSTRAT, D04	3 B		.000 1.000 EA	00.	0 0		00/00/00	6/66/

## 4.1 GENERAL

This section contains the schematic diagrams and parts layout diagrams for the Model 1001SLE/1751SLE AC Power Source. The schematic diagrams should be used to understand the theory of operation and as an aid in troubleshooting the unit.

Components identified as "trim" or "FSV" are factory selected parts whose values are determined at the time of final checkout.

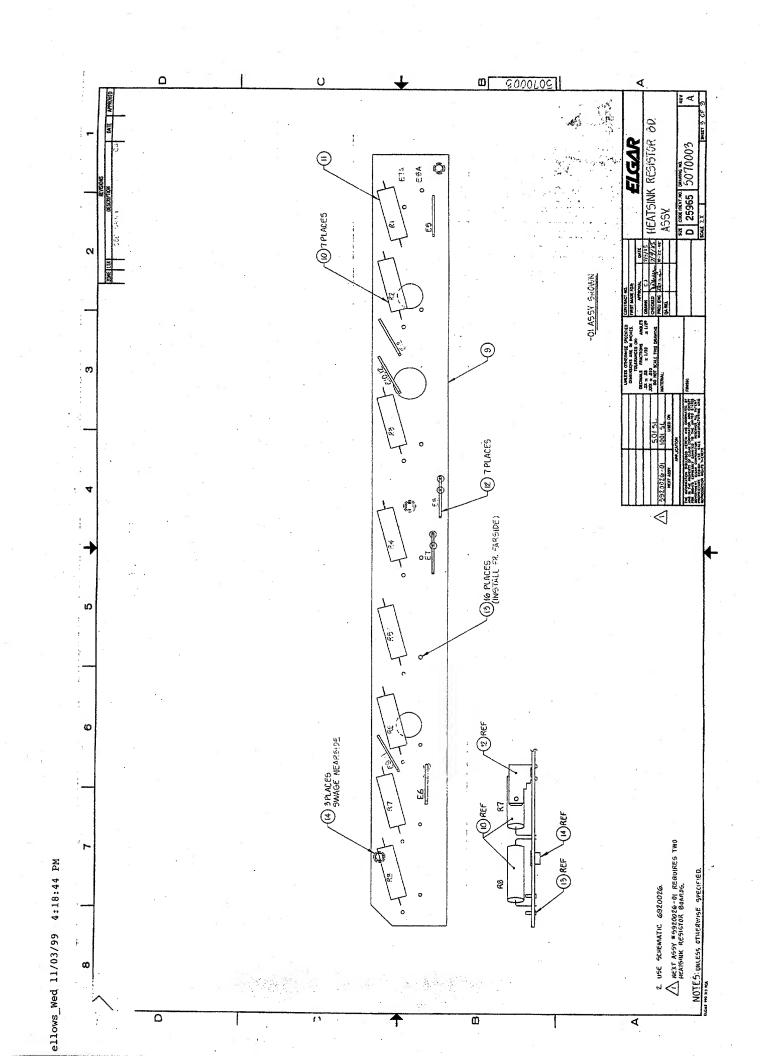
## 4.2 DIAGRAMS

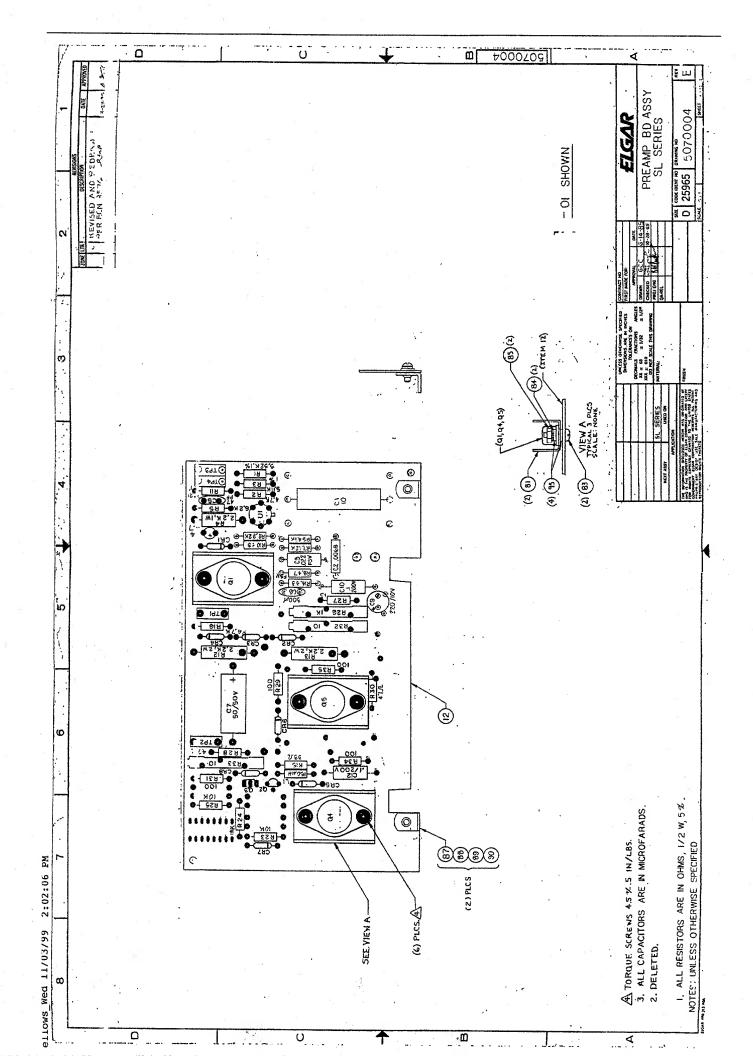
Table 4-1 provides a list of the diagrams included in this section.

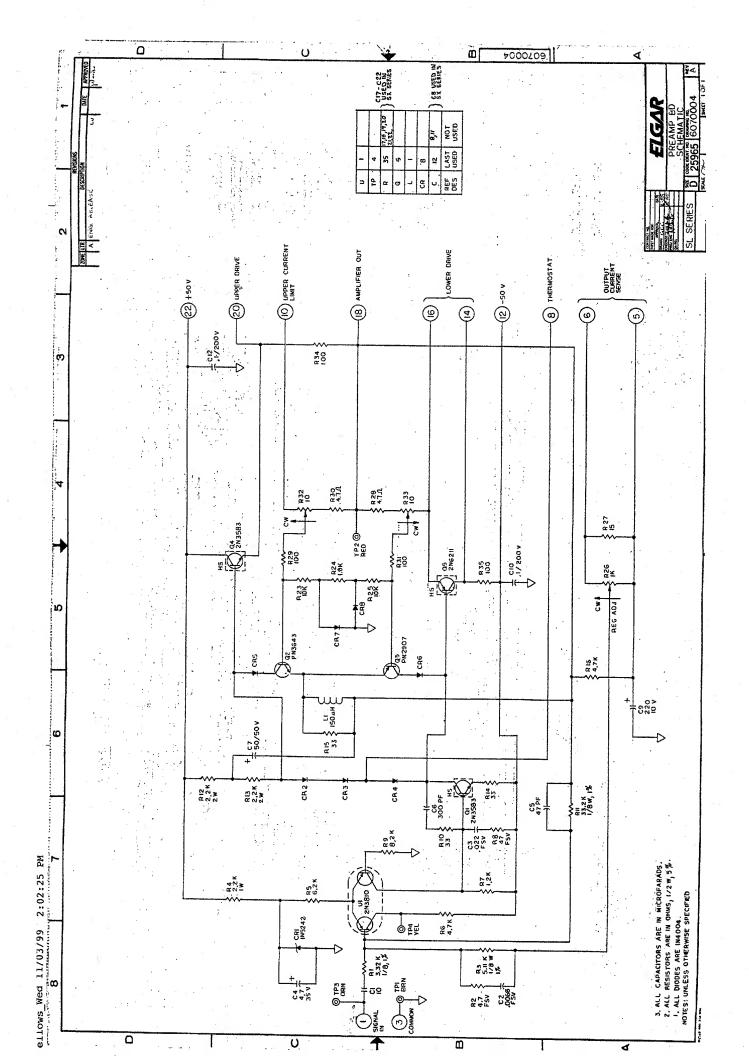
Table 4-1. Model 1001SLE/1751SLE Diagram List

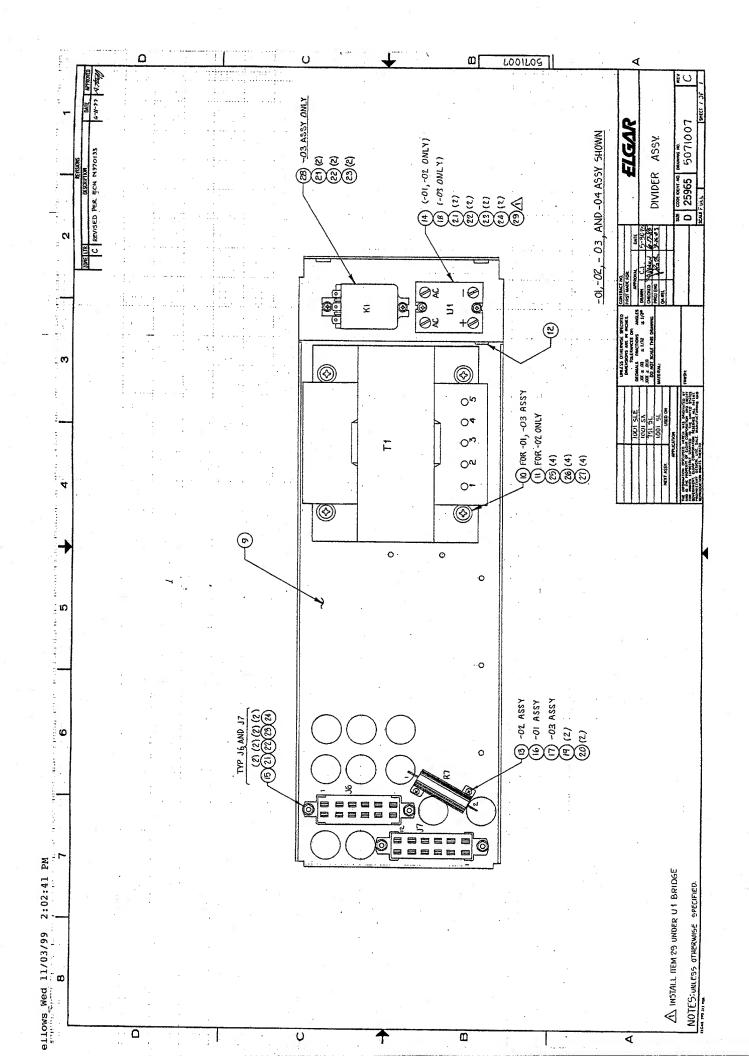
Document Number	Description
5070003	Heatsink Resistor Board Assembly
5070004	Preamplifier Board Assembly
6070004	Preamplifier Board Schematic
5071007	Divider Assembly 1001SLE
5071009	Brace Plate Assembly 1751SLE
5071014	Capacitor Assembly
5071070	Filter Box Assembly 1001SLE
5071075	Motherboard Assembly SLE
6071075	Motherboard Schematic
5071076	Final Assembly 1001SLE
6071076	Interconnect Schematic 1001SLE
5071082	Rear Panel Assembly 1001SLE
5071083	Front Panel Assembly 1001SLE
5071084	Right Panel Assembly 1001SLE
5071085	Brace Plate Assembly 1001SLE
5121010	Divider Assembly 1751SLE
5121024	Heatsink Assembly 1751SLE
6121024	Heatsink Schematic 1751SLE
5121045	Final Assembly 1751SLE
6121045	Interconnect Schematic 1751SLE
5121047	Right Panel Assembly 1751SLE
5121048	Rear Panel Assembly 1751SLE
5121049	Front Panel Assembly 1751SLE
5920026	Heatsink Assembly 1001SLE
6920026	Heatsink Schematic 1001SLE

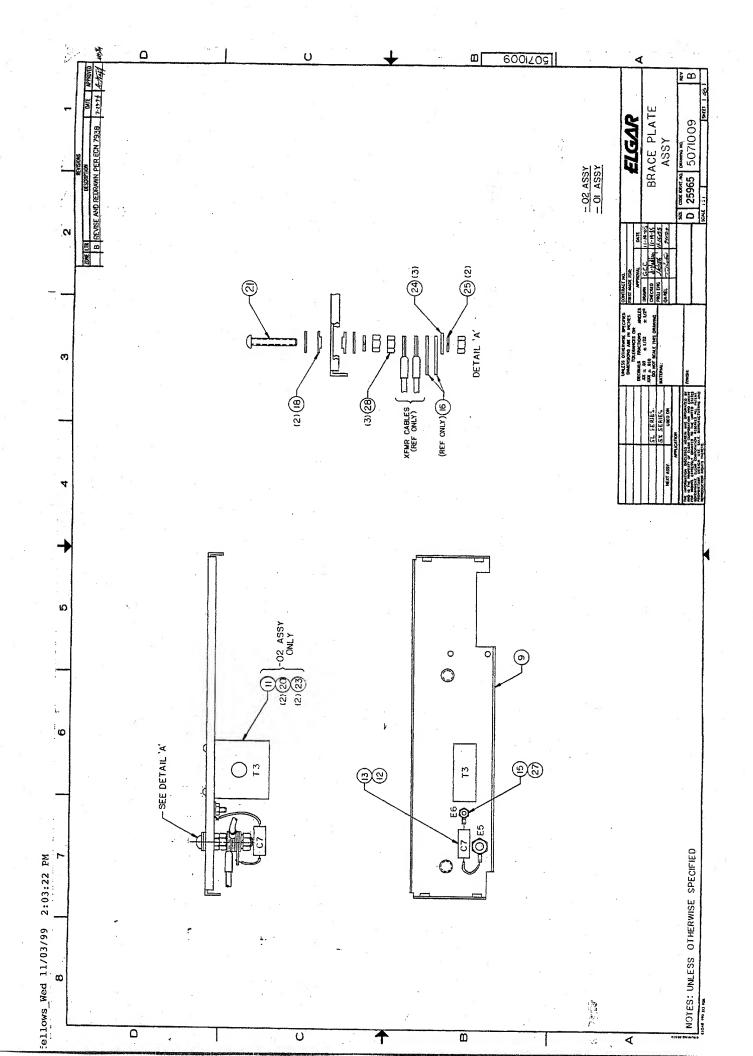
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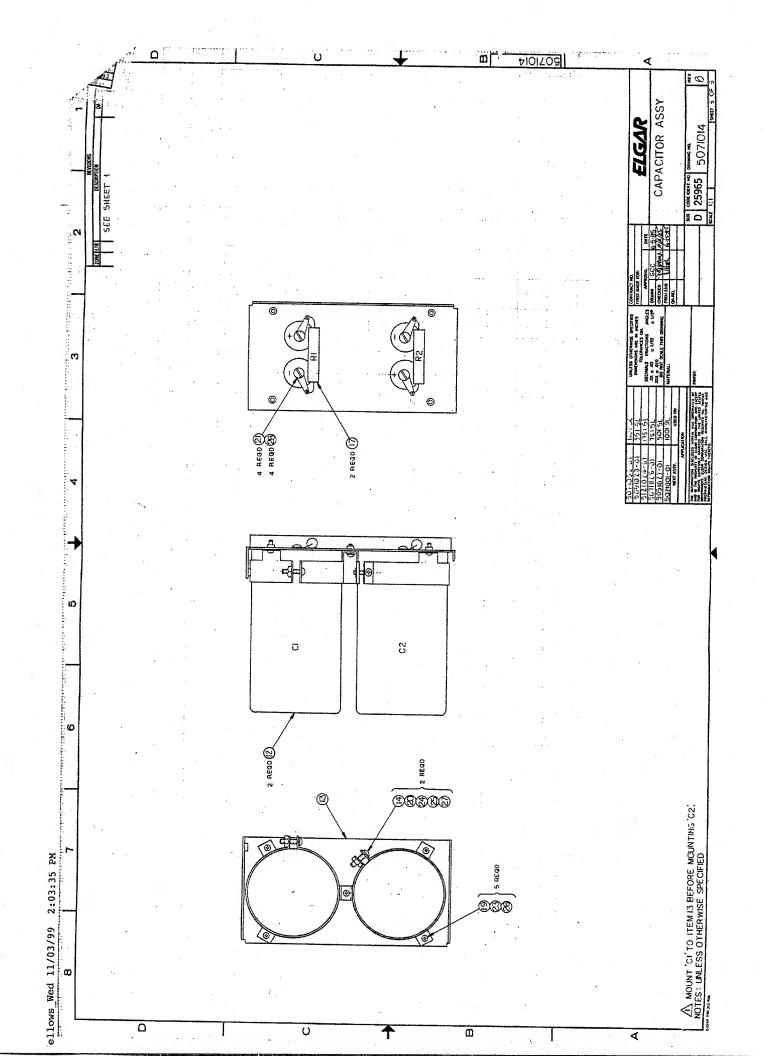


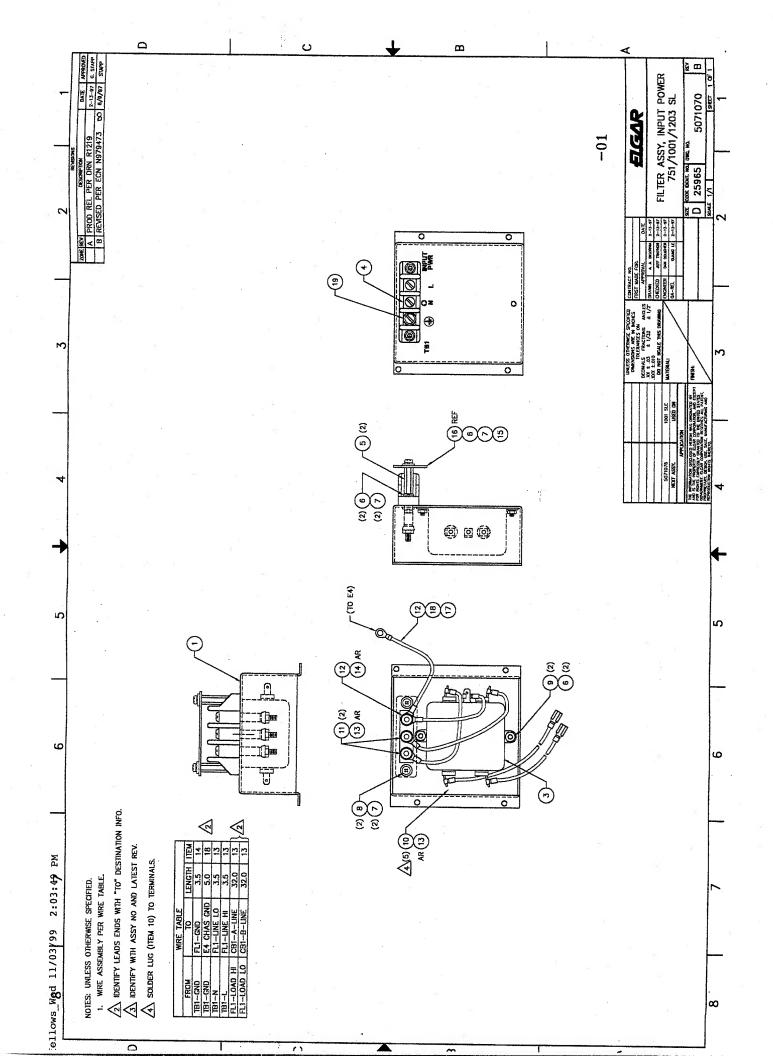


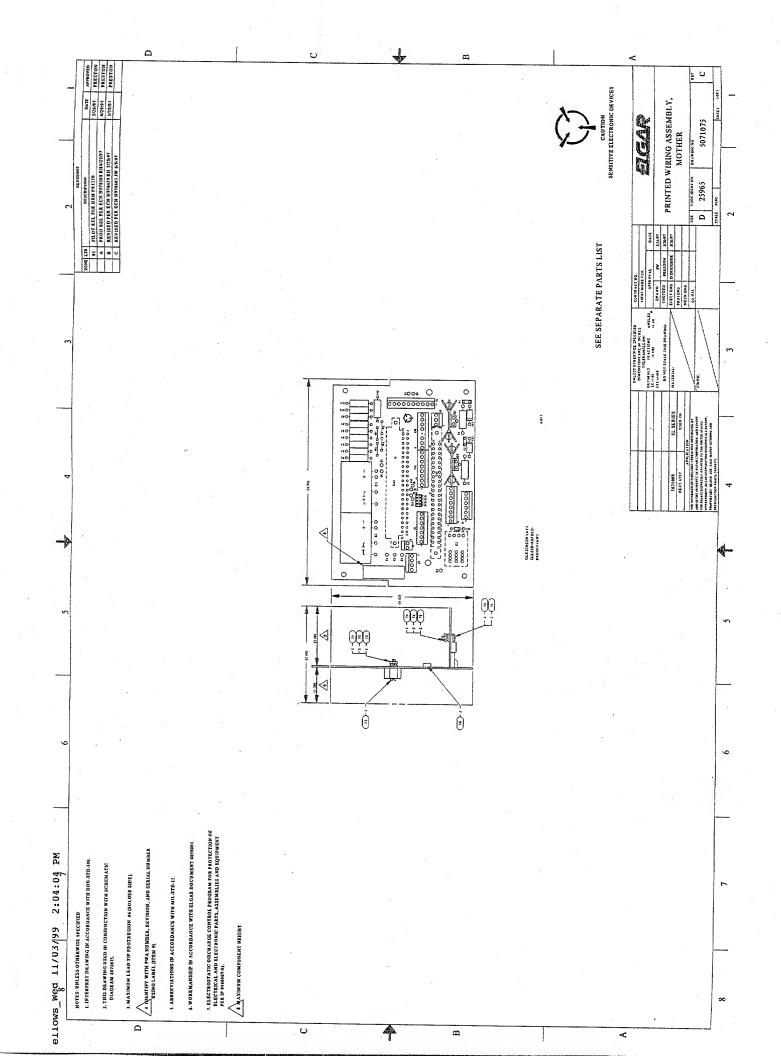


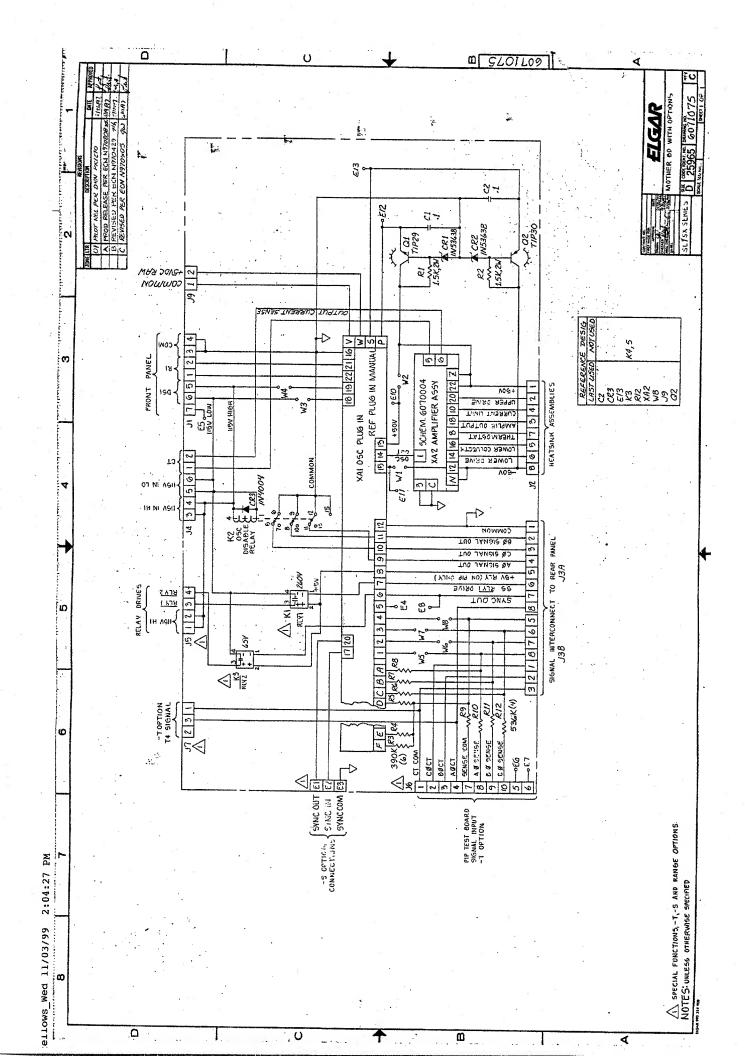




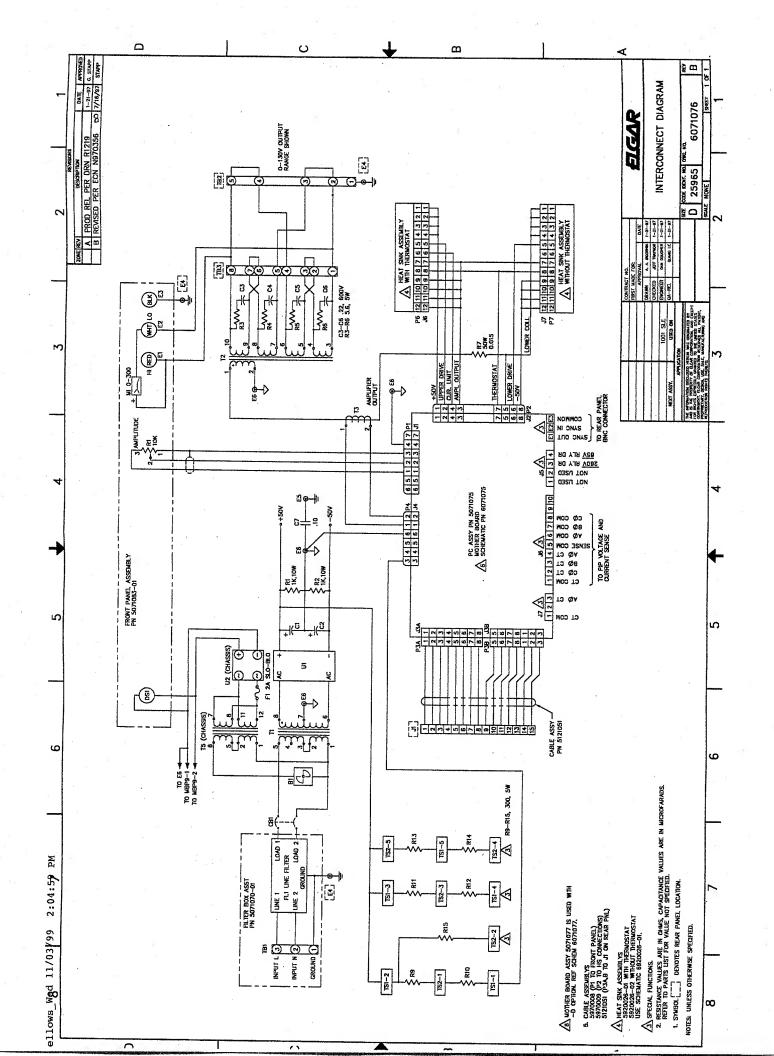


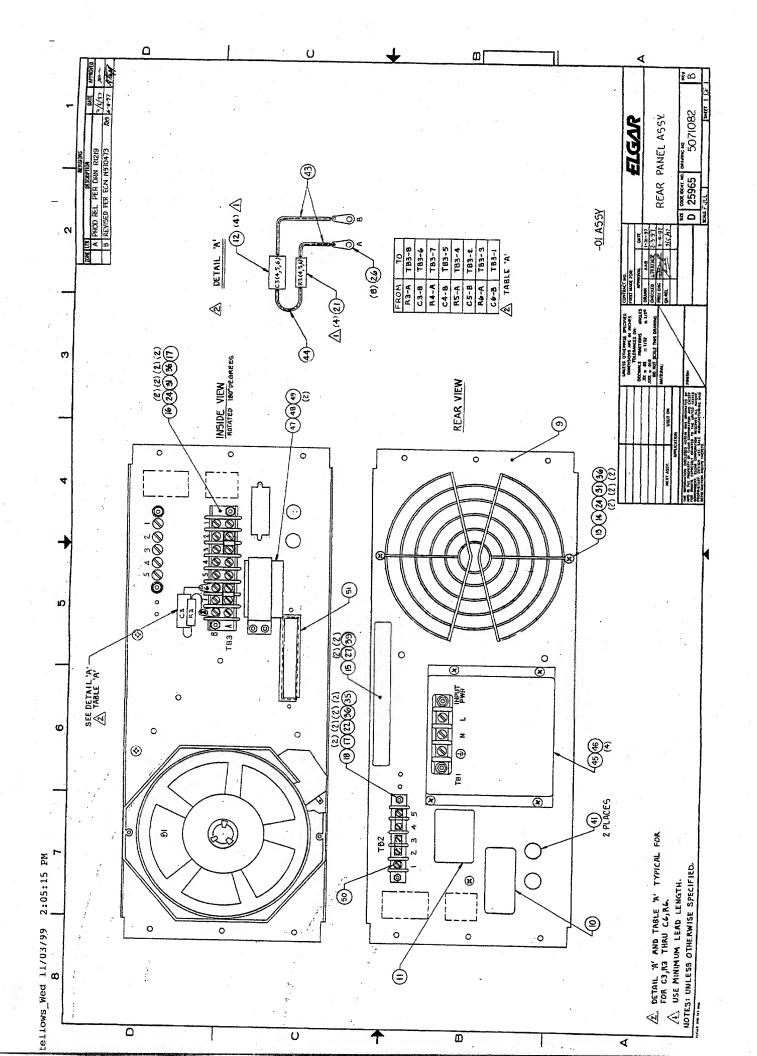


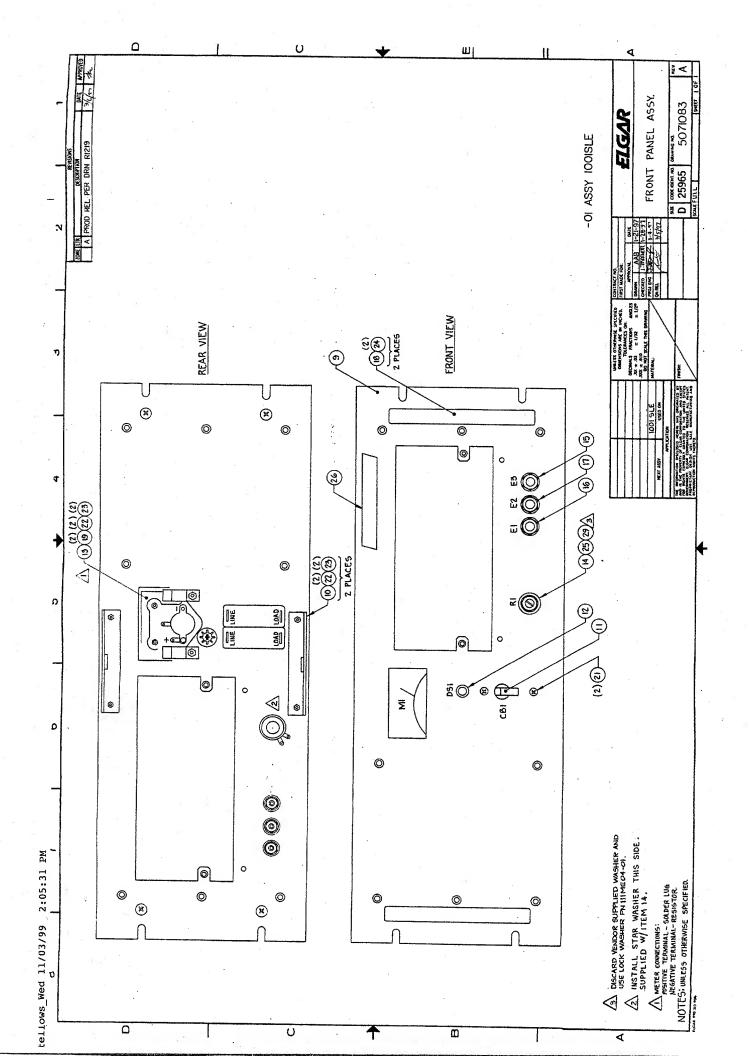


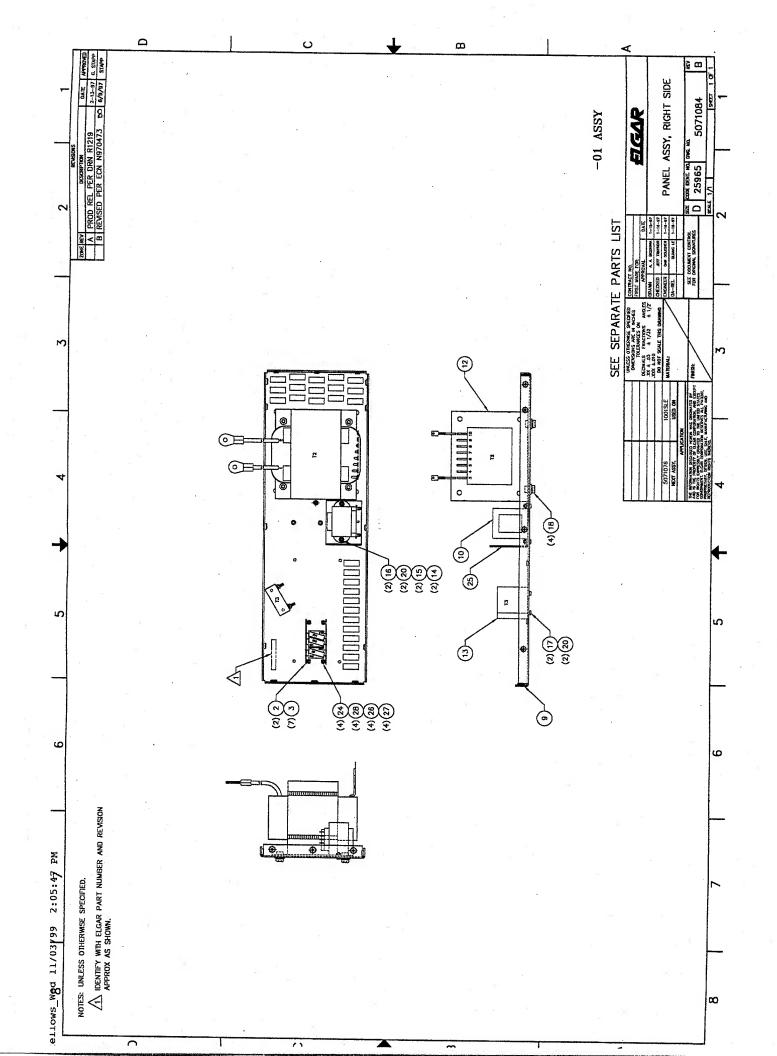


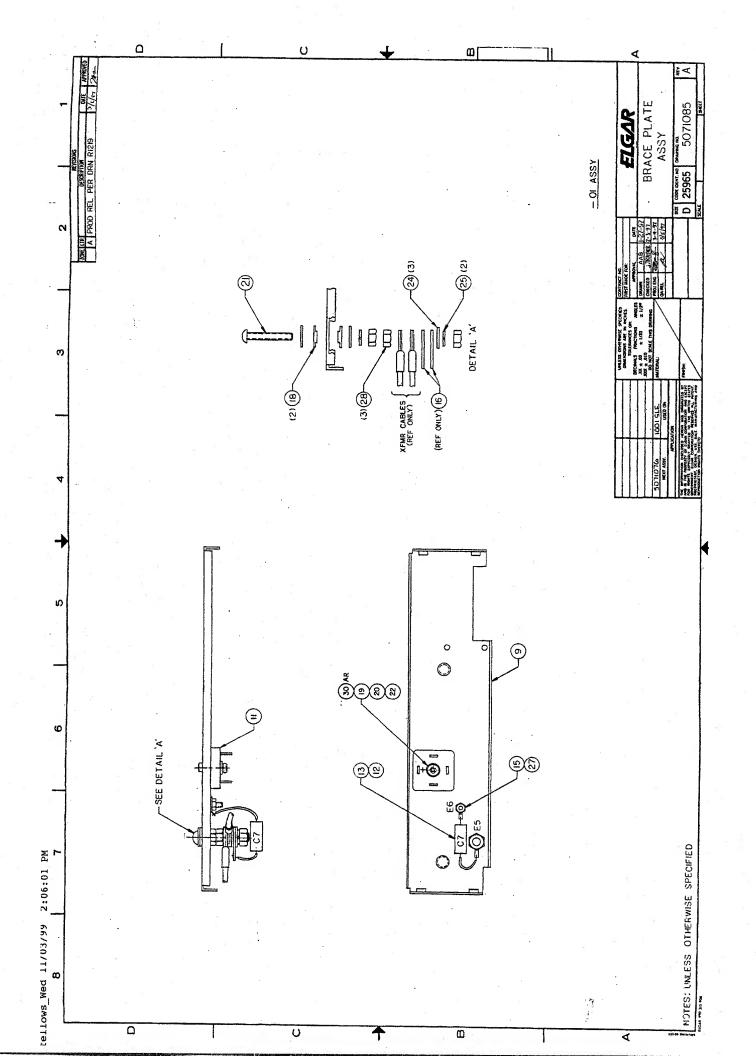
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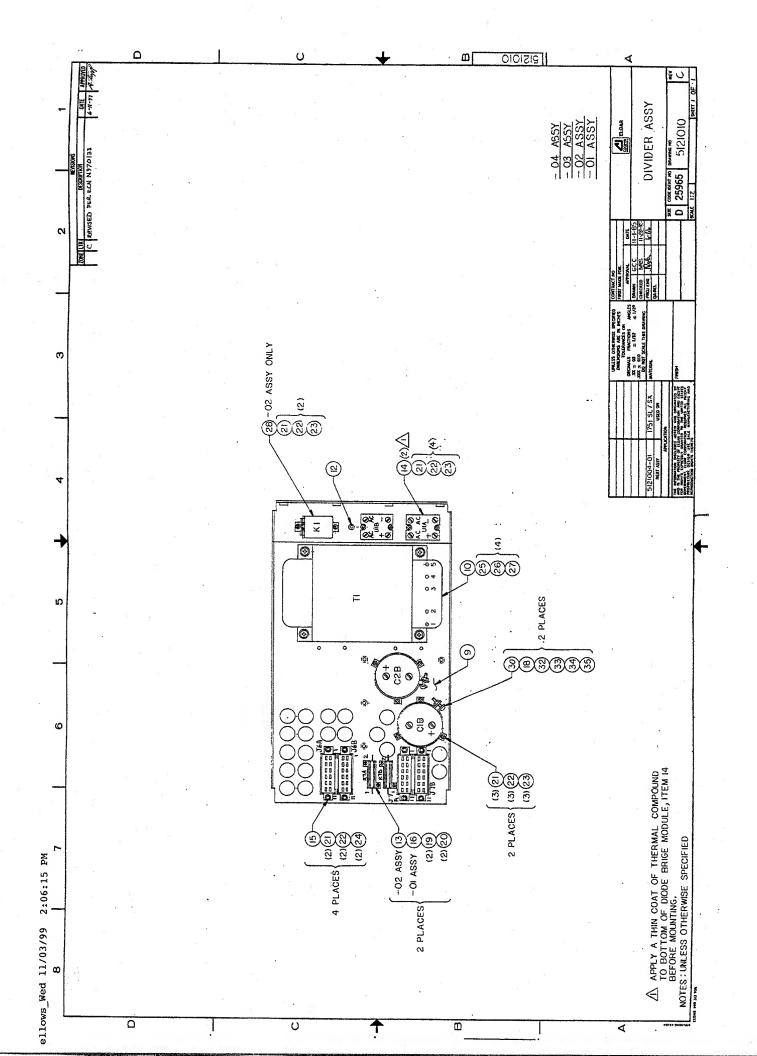


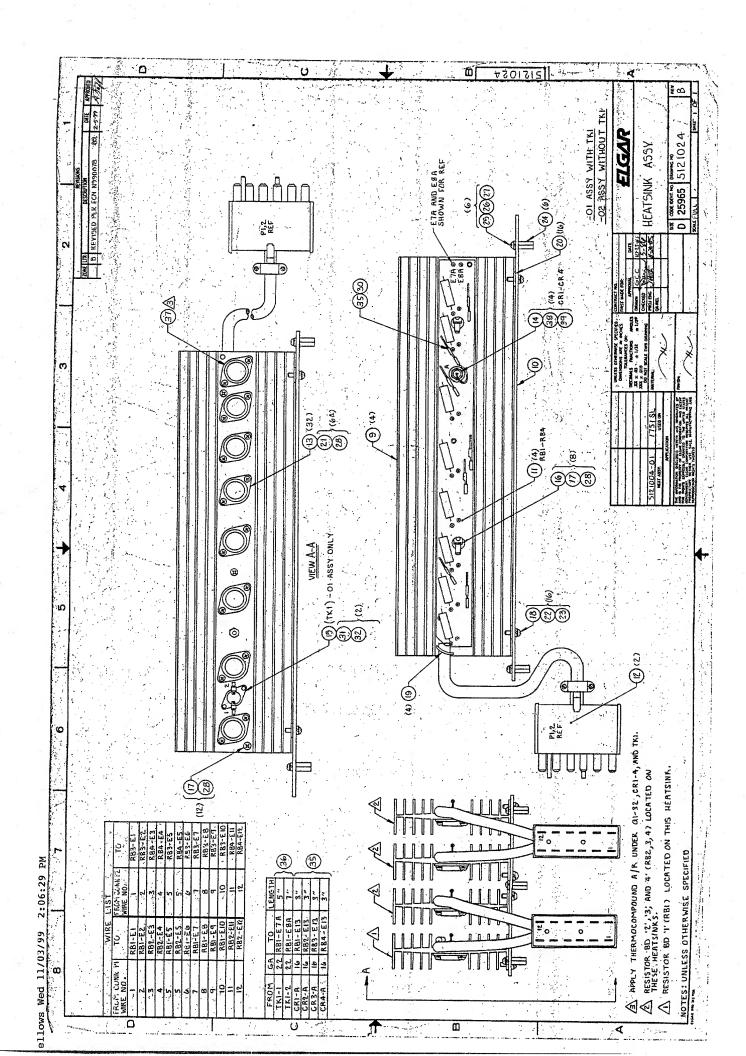


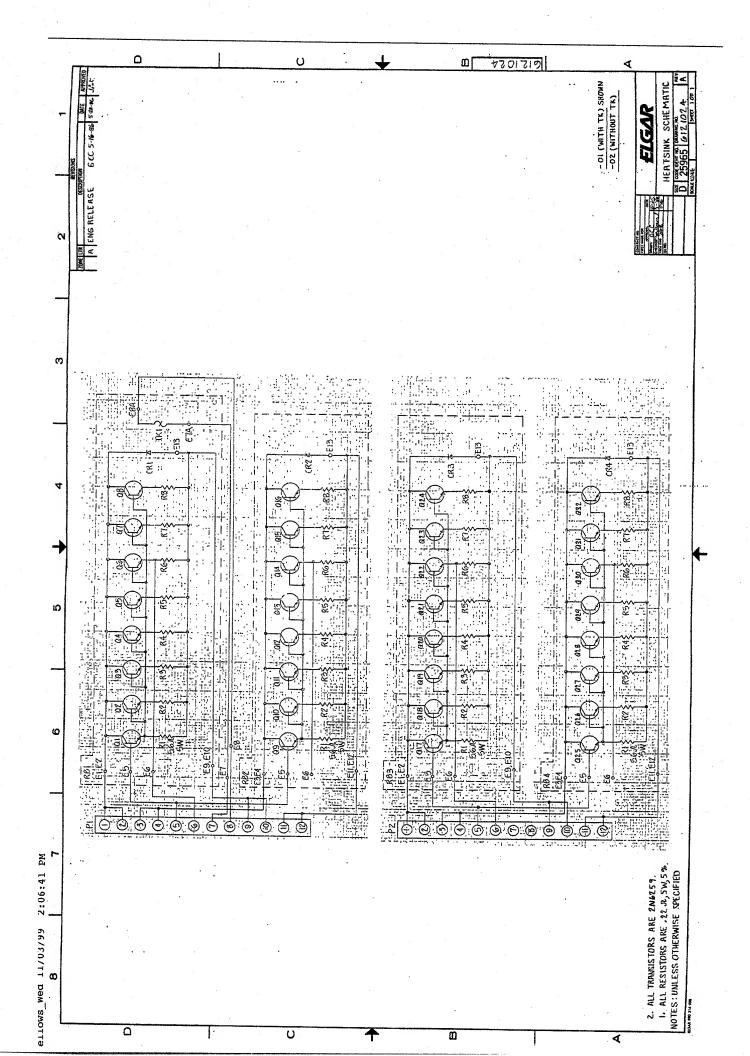


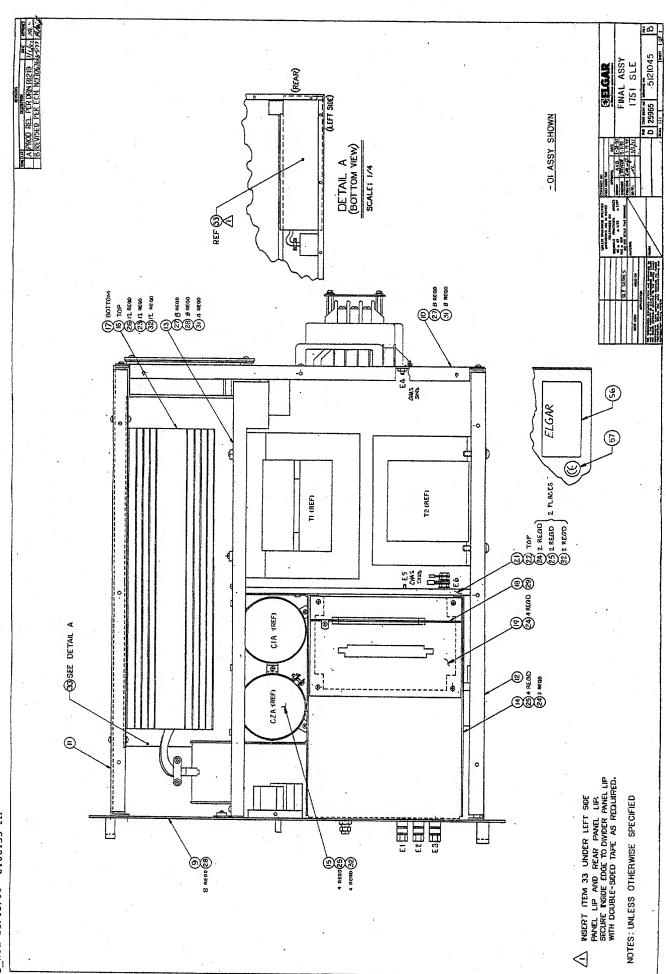












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